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December 21, 2011

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U.S. Environmental Protection Agency
Region 1, New England
Regional Administrator
Attn: Kim Tisa
PCB Coordinator
5 Post Office Square, Suite 100
Mail Code: OSRR07-2
Boston, Massachusetts 02109

**Re: Request for Approval of TSCA Risk-Based Clean-up of PCBs under 40 CFR 761
168 Western Avenue
Allston, Massachusetts 02134
ATC Job No. 060.21865.0014**

Dear Ms. Tisa:

Please find enclosed a request for approval of a risk-based clean-up of PCBs under the Toxic Substances Control Act, 40 CFR 761.61(c), on behalf of Harvard Real Estate-Allston, Inc. (Harvard), for the ongoing renovation activities at the above-referenced property.

If you have any questions regarding this application, please contact Michael Gitten at (781) 404-1439 or michael.gitten@atcassociates.com.

Sincerely,

ATC Associates Inc.

A handwritten signature in blue ink, appearing to read 'J. Roback'.

Jason M. Roback, CHMM
Project Manager

ATC Associates Inc.

A handwritten signature in blue ink, appearing to read 'Michael Gitten'.

Michael Gitten, PE
Environmental Division Manager

cc: Christopher Centrella, Harvard
Massachusetts DEP, One Winter St., Boston, MA 02108

Gordon Reynolds, Harvard
Bill Swanson, LSP, CDM



**REQUEST FOR APPROVAL OF TSCA RISK-BASED CLEAN-UP
OF PCBs**

**168 WESTERN AVENUE
ALLSTON, MASSACHUSETTS 02134**

DECEMBER 21, 2011

Prepared for:

**HARVARD REAL ESTATE-ALLSTON, INC.
46 BLACKSTONE STREET
CAMBRIDGE, MASSACHUSETTS 02139**

Prepared by:

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ATC Project No. 060.21865.0014

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FIGURE

Figure 1	Site Vicinity Map
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TABLE

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1 INTRODUCTION

ATC Associates Inc. (ATC) has prepared this request for approval of a risk-based clean-up of polychlorinated biphenyls (PCBs) (Request) under the Toxic Substances Control Act (TSCA), on behalf of Harvard Real Estate-Allston, Inc. as coordinated with Harvard University Environmental Health, Safety and Emergency Management (Harvard), associated with the renovation of 168 Western Avenue in Allston, Massachusetts (Site).

Two (2) caulking materials (interior and exterior caulk around certain doors and windows) have been identified as containing PCBs at concentrations ≥ 50 parts per million (ppm), which is defined by 40 CFR 761 as PCB Bulk Product Waste (this material is referred to herein as the "PCB Caulk" or the "PCB Bulk Product Waste"). Limited amounts of materials abutting PCB Caulk have been determined to have concentrations of PCBs > 1 ppm and therefore are subject to the cleanup provisions of 40 CFR 761 for PCB Remediation Waste. Harvard is in the process of renovating the Site to support its use as a commercial/retail bakery. This Request is provided to support the renovation activities where PCB Bulk Product Waste and PCB Remediation Waste have been identified. In summary, all PCB Bulk Product Waste will be removed, and PCB Remediation Waste will also be removed or remediated. Where PCB Remediation Waste above 1 ppm cannot be removed it will remain in place as allowed by 40 CFR 761 and will be encapsulated. At the completion of abatement activities a Monitoring and Maintenance Implementation Plan will be prepared to support monitoring encapsulant performance and a deed notice placed on the property.

This Request has been prepared in accordance with TSCA requirements for a risk-based clean-up plan, as outlined at 40 CFR 761.61(c). 40 CFR 761.61(c) indicates that all the information outlined in 40 CFR 761.61(a) (*Self-Implementing Clean-up*) must be provided. Therefore various references are made throughout this document to 40 CFR 761.61(a), even though this submittal is for a risk-based clean-up under 40 CFR 761.61(c).

A summary of sampling procedures, as required by 40 CFR 761.61(a)(3)(i)(B), is provided in Section 2. Information on the nature of PCB contamination and location and extent of contamination, as required by 40 CFR 761.61(a)(3)(i)(A) and (C), is provided in Section 3. Section 5 provides the cleanup plan information required by 40 CFR 761.61(a)(3)(i)(D). The certification required by 40 CFR 761.61(a)(3)(i)(E) is included in Section 6.

The following is information regarding the entity submitting this Request:

Entity: Harvard Real Estate-Allston Inc. c/o Harvard University Environmental Health, Safety and Emergency Management (Harvard)

Address: 46 Blackstone Street
Cambridge, Massachusetts 02139

Contact: Gordon Reynolds
Harvard University
Director of Environmental Affairs and Project Support Services
gordon_reynolds@harvard.edu

Telephone: (617) 496-1359

2 SITE BACKGROUND AND HISTORY

This Section provides Site information, including Site location, history and description. Section 2.3 includes information on PCB characterization sampling, as required by 40 CFR 761.61(a)(3)(i)(B).

2.1 GENERAL LOCATION

The Site includes one building formerly occupied by an automotive dealer comprised of three main portions: 1) the former showroom; 2) the former garage; and 3) an offices/storage area. These areas are shown on Figures 2 through 5. The Site is located to the south of Western Avenue and to the east of Travis Street in the “Lower” area of Allston, Massachusetts. Site access is provided from the north via Western Avenue. A Site vicinity map showing the location of the Site is provided as Figure 1. Photographs of the Site are included in Appendix A.

2.2 SITE HISTORY AND DESCRIPTION

The Site building is currently vacant and is undergoing renovation to support its reuse as a commercial/retail bakery. Its last use was as a baseball training facility by Harvard. Prior to that it was leased to Boston Volkswagen automotive dealership (VW). Reportedly, VW conducted sales and minor vehicle repair activities in the Site building. The Site building was reportedly constructed in 1964.

The building consists of a one-story masonry structure with a mezzanine. The former showroom occupies the northern portion of the building. The former garage occupies the southeastern portion of the building. The offices/storage areas occupy the southwestern and mezzanine portions of the building.

The eastern and western, exterior façades of the former showroom include floor-to-ceiling storefront windows/doors (no spandrels) with concrete columns and eaves with wood fascia boards. The northern, exterior façade of the former showroom includes large, nearly floor-to-ceiling storefront windows with concrete spandrels, columns, and eaves with wood fascia boards. The interior of the former showroom includes concrete ceilings, spandrels, and columns, and concrete floor/foundation. The former showroom ceiling includes three (3) horizontal chases constructed of gypsum board for duct work, etc., which each measure approximately 80 feet long by three (3) feet wide.

The northern, exterior façade of the former garage includes large, nearly floor-to-ceiling storefront windows with concrete spandrels and columns (no eaves). The interior of the former garage includes concrete ceilings, and concrete floor/foundation. The primary storefront window terminates at a steel lintel beam. The bases of the storefront windows/doors consist of concrete in all areas. The ceiling in the former Garage is constructed of corrugated metal on concrete beams.

The one-story structure consists of reinforced concrete framing in-filled with concrete masonry units (CMUs), commercial grade aluminum windows and doors (storefronts), and flat roofs. Roof and floor decks consist of reinforced concrete and a reinforced concrete slab-on-grade. The facades include pre-cast concrete panels. Interior and exterior window and door caulk joints along the storefront are filled with PCB Caulk. The interior caulk joint along the top of a single demising window in the showroom also includes PCB Caulk.

The slab on grade concrete floor/foundation along the northern and western facades of the former showroom is abutted by gravel landscaping along the northern and western sides of the former

showroom exterior. A three-foot wide concrete walkway abuts the eastern side of the former showroom foundation, beyond which is an asphalt-paved parking area. An asphalt-paved parking area abuts the northern side of the garage.

The building is undergoing renovation to facilitate future occupancy as a commercial/retail bakery. Planned renovations include replacement of storefront door/window units and fascia boards (northern, northeastern, and northwestern facades), renovation of interior finishes, and landscaping. No demolition of structural framing components, roof and floor decks, and the concrete-slab-on grade is anticipated. Limited work completed includes removing fascia board, sidewalk with underlying soil and an interior demising wall. The limited work was performed by an environmental remediation company, DEC-TAM Corporation of North Reading, Massachusetts (DECTAM), following the procedures detailed herein. All materials removed and associated containment material and personal protection equipment (PPE) are currently stored in a secure on-Site rolloff, labeled as containing PCB waste. As a conservative measure, Harvard plans to manage the material in this rolloff as containing PCBs at > 50 ppm.

Removal of PCB Caulk and the appropriate removal or encapsulation of surrounding concrete, tile, grout, asphalt, soil, fascia boards, and window/door units (including glass panes, aluminum frames, and glazing) (as PCB Remediation Wastes) is required to complete the proposed renovations.

The Site is also being addressed under the Massachusetts Contingency Plan (310 CMR 40.0000(MCP)). There are three Release Tracking Numbers (RTN) issued by the Massachusetts Department of Environmental Protection (MassDEP) associated with the property as summarized below (3-17965, 3-26932 and 3-30396). The MCP relationship to this Request is discussed further in Section 5.5 herein.

RTN 3-17965 was issued in 1999 and is tied the filing of a Downgradient Property Status (DPS) Opinion. The DPS was filed in response to potential volatile organic compound (VOC) groundwater impacts emanating from the adjacent Flint Cleaners (170 Western Avenue), a dry cleaner that has been in operation since the 1950s. Regulatory closure for the 170 Western Avenue release has been achieved. Groundwater sampling at 168 Western Avenue was conducted in 2010 and did not detect any VOCs above laboratory detection limits.

RTN 3-26932 was issued in July 2007 in response to the observation of elevated metals, semivolatile organic compounds (SVOCs), petroleum hydrocarbons and other compounds in soil during utility construction in the area. Assessment work under the MCP has concluded that concentrations of lead in the vicinity of 168 Western Avenue were in excess of the default lead standard (which is very typical for historically impacted urban fill soils). Response actions for the historically impacted/urban fill soils identified by RTN 3-26932 are ongoing.

During investigations associated with this Request, surficial soil samples were collected. A surficial soil sample from the west side of the showroom had a PCB concentration of 76 ppm (Sample S-2A from 5-inches below grade). This represents 2-Hour Reporting Condition under the MCP if access to surficial soils is not restricted (e.g., within a fenced area). The condition was reported to the MassDEP on October 20, 2011 and the MassDEP approved performing additional investigations, restricting access to the area represented by the sample by installing a fence and covering exposed soil with polyethylene sheeting. The work covered by this Request will be overseen by a Massachusetts Licensed Site Professional and will meet the requirements of TSCA and the MCP as it relates to soil impacts.

2.3 PCB CHARACTERIZATION SAMPLING

A hazardous materials survey, including identification of suspect PCB-containing material was completed to facilitate the renovation project. Sampling of suspect PCB-containing and PCB-impacted material was performed in an iterative fashion from June 30, 2011, through November 9, 2011. Samples were collected as summarized in this section.

Initial sampling of suspect PCB-containing sealant materials (e.g., window caulk and glazing) was conducted in the areas identified for renovation. Based upon the initial sealant data that determined that PCB Bulk Product Wastes are present, abutting building materials were sampled. Asphalt, sidewalk, gravel and soil adjacent to the impacted building materials were also sampled. Finally, a round of indoor air samples was also collected to establish pre-abatement baseline conditions.

A total of 106 bulk samples were collected and submitted for laboratory analysis for PCB content in connection with this Request. The 106 bulk samples are comprised of:

- 6 sealant (window glazing and caulk) samples
- 39 concrete samples
- 3 floor tile samples
- 3 grout samples
- 2 exterior landscaping gravel samples
- 53 soil samples

In addition, 3 indoor air samples were collected.

Sealant Sampling

Suspect sealant (window caulk and glazing) samples were collected via hand tools

Abutting Building Material Sampling

Caulk samples were reported to contain PCBs at ≥ 50 ppm, and therefore classified as PCB Bulk Product Waste. Based upon the presence of this PCB Bulk Product Waste, sampling of abutting building materials was performed to determine if cleanup as a PCB Remediation Waste was necessary.

The abutting concrete, tile, grout and asphalt samples were collected to reflect surface conditions (within 0.5-inches of the surface depth) and at incremental distances (adjacent to-8 feet or more away) from the abutting sealants to determine if PCBs migrated. Either two or three samples ("A", "B", and "C") of each adjacent material were sampled and submitted for laboratory analysis. Metal window and doors frames were not sampled. Due to the limited size of the project and fact that caulk associated with these items contained PCBs, it was assumed that these materials will be disposed of collectively off-site with the caulking as material with PCB concentrations ≥ 50 ppm as a conservative measure.

Abutting concrete, asphalt, tile and grout samples were collected via hammer drill and named by their associated building component (i.e., spandrel, base (concrete floor/slab on grade), column, eave, and ceiling), location (i.e., vertical, horizontal, interior, etc.) and distance from the associated caulk joint (i.e., 1.5", 6", etc.). Sampling was performed in consultation with "Standard Operating Procedure for Sampling Porous Surfaces for PCBs" (EPA Region 1, May 5, 2011).

Soil Sampling

Soil and landscaping gravel samples were collected along the perimeter of the building where PCB-containing window/door caulk was present on the foundation slab and the exterior foundation was determined to have PCB concentrations >1 ppm. Samples were collected from beneath the asphalt pavement located outside the garage, concrete sidewalk located to the east of the showroom, gravel landscaping stone to the north and west of the showroom and from grassed areas to the southwest of the showroom.

Samples were initially collected via shovel or handheld direct-push sampler. Where greater depths were required to be sampled along the southwestern side of the showroom, a truck-mounted direct-push Geoprobe sampler was used to advance 8 soil borings in this area on November 9, 2011, to five feet below grade.

The soil borings are shown as S-1A, S-21, S-22, S-34, S-35, S-36, S-39, and S-40 on Figure 3. Drilling was performed by New Hampshire Boring of Derry, New Hampshire (NHB) utilizing a Geoprobe 6610 direct-push track rig. A two-inch diameter, five-foot long stainless steel core barrel with a onetime use polyethylene sampling sleeve was utilized for continuous soil sample collection. Upon completion, drill cuttings were returned to the boring and hand compacted. Soils encountered during drilling activities generally consisted of dry to semi-moist, brown to gray, fine to medium sand with some gravel, brick, and trace organics. Groundwater was not encountered.

Both grab and composite samples were submitted for laboratory analysis. Table 2 indicates if the submitted sample was a grab or composite. Samples were named in the order they were collected (i.e., Samples S-1 through S-40). Soil samples were collected at 10 foot or less intervals along the building foundation perimeter where PCB Caulk was identified. When PCBs in soil were identified at concentrations > 1 ppm additional sampling was performed at a greater density.

Soil samples along the eastern former Showroom and northern garage façades were prepared by compositing samples collected approximately 8-inches below pre-renovation grade at 6 inches from the concrete foundation ("A" samples) and 12 to 18 inches from the concrete foundation ("B" samples). The "A" and "B" samples were composited into "C" samples at each of these locations. A total of 12 samples were collected (S-9C through S-20C). If the composite "C" sample had a concentration greater than 1 ppm, additional grab sampling was performed in the area represented by the composited sample.

Soil samples along the northern and western Showroom facades were collected as grab samples just below the landscape gravel at approximately 4 to 6 inches below grade and 6 inches from the concrete foundation ("A" samples).

Based on initial laboratory results, additional soil samples were collected along the northern garage façade and western Showroom façade to delineate the PCB impacts. Refer to the Figures for sample locations. Samples were collected from either 8 or 20 inches below grade.

Indoor Air Sampling

Two air samples within the interior of the former Showroom (one each from the north and south ends) and one air sample within the interior of the former Garage portions of the Site building were collected November 9, 2011. Samples were collected following the EPA Method TO-10A for PCB homolog analysis using polyurethane foam (PUF) cartridges. The sample cartridges were laboratory-prepared. The cartridges were set up on a stand located at least three feet away from any walls and at a height of approximately 3-5 feet above the floor. Each sample cartridge was connected to sample tubing and a calibrated personal air sampling pump. The pumps were turned on and allowed to draw air through the cartridges at a flow rate of between 1.597 and 2.028

liters/minute for approximately four hours. Interior work activities were limited and consisted of electrical work only.

The forced hot air heating system in the former Showroom was active. The individual ceiling mounted heaters within the former Garage were not active. It should be noted that the planned heating and air ventilation system that is to be installed during renovations will greatly increase air flow. In addition, removal and/or encapsulation of PCB-impacted materials is planned. As such, the sampling conditions are considered to be very conservative.

Sample Analysis, Location and Methodology

All samples, except for indoor air, were submitted for laboratory analysis of PCB Aroclors and transported under chain-of-custody to Con-Test Analytical Laboratory (Contest) of East Longmeadow, Massachusetts. Samples were analyzed following EPA Method 3540C for Soxhlet extraction and Method 8082 for PCB analysis. Air samples were submitted to Alpha Analytical (Alpha) of Mansfield, Massachusetts for PCB homolog analysis following EPA method 3540C for Soxhlet Extraction and Method 8270/680 for homolog analysis.

Refer to Figures 2 through 5 for approximate sample locations. Figure 2 depicts the approximate locations of samples collected within the interior of the Showroom. Figure 3 depicts the approximate locations of samples collected from the exterior of the Showroom. Figure 4 depicts the approximate locations of samples collected within the interior of the Garage. Figure 5 depicts the approximate locations of samples collected from the exterior of the Garage.

Appropriate personal protective equipment (PPE) including but not limited to respirator, nitrile gloves, and eye protection were utilized during sample collection activities. Sealant samples were collected via a safety utility knife.

Utility knife razor blades were changed between collection of each individual sample (i.e., 6A, 6B, 6C, 7A, etc.). Concrete, tile, grout and asphalt samples were collected via hammer drill equipped with a chisel attachment. The chisel attachment was decontaminated with hexane following the collection of each individual sample (i.e., Eave A, Eave B, Base A, etc.). Soil samples were collected via shovel and direct-push methods. Soil sampling equipment was decontaminated with hexane following the collection of each individual sample (i.e., S-1, S-1-2', S-2, etc.). ATC photographed and logged each sample location, with the exception of soil samples, after decontamination activities.

Photographs of the Site and representative sampling locations are included in Appendix A.

Investigation derived waste and associated PPE was placed in a secure and properly labeled on-site rolloff and will be managed conservatively as if it contains PCBs > 50 ppm.

It is also noted that six carpet/mastic samples were collected via hand tools and named by the associated room and area (i.e., Showroom-East, Garage-West, etc.). Three samples were collected from the former Showroom and Garage in the center of each room to determine support waste management efforts. PCB concentrations in these samples ranged from 1.18 ppm to 7.8 ppm. Aroclor 1242 was most predominately observed with lesser amounts of Aroclors 1248 or 1254. Based upon the low PCB levels and Aroclors observed it was concluded that these PCB concentrations are not associated with the PCB Caulk and are well below 50. As a conservative measure these materials will be removed and disposed of off-site with the PCB Bulk Product Wastes as described in Section 5.

It should be noted that ATC also characterized the presence of asbestos at the building to facilitate renovation activities and has confirmed that various materials do contain asbestos. None of the sealants identified by ATC as PCB-containing were determined to contain asbestos.

2.4 PCB LABORATORY ANALYSIS RESULTS

This section summarizes the PCB laboratory results. PCB concentrations ranged from 0.15 to 110,000. Aroclor 1254 was the most predominately observed Aroclor with much less prevalence and concentration of Aroclors 1242 and 1248. Tables 1 through 3 tabulate the data and PCB concentrations are also shown on Figures 2 through 5. The associated Contest Laboratory Reports of PCB Analytical Results are included in Appendix B.

2.4.1 Sealants

PCBs were detected in all four (4) caulking samples (Samples 7A, 8A, 9A, and 12A) at concentrations ranging from 35,600 ppm to 110,000 ppm, qualifying the associated caulking materials as PCB Bulk Product Waste.

PCBs were detected in the two (2) analyzed glazing samples (Samples 6A and 10A) at concentrations of 3.9 ppm and 2.2 ppm, respectively.

Aroclor 1254 was observed in all sealant samples. Aroclor 1248 was also observed at a lower concentration in Sample 12A.

Refer to Table 1 for summary laboratory results and the samples' material type, location, adjacent surfaces, physical characteristics and identification number. Contest Laboratory Reports of PCB analytical results for the sealants are included in Appendix B.

2.4.2 Abutting Materials

Based upon the results of the PCB Bulk Product Waste samples, 53 abutting building material (concrete, tile, grout, and asphalt) and 53 gravel and soil samples were submitted for laboratory analysis to determine: 1) if these materials had been impacted by caulks identified as PCB Bulk Product Waste; and 2) the extent of impact.

Forty three (43) of the 53 abutting building material samples had detectable PCB concentrations ranging from 0.15 ppm to 45 ppm. Twenty nine (29) of the 53 gravel/soil samples collected adjacent to the building foundation where PCB Bulk Product waste is present had detectable PCB concentrations ranging from 0.15 ppm to 76 ppm.

Aroclor 1254 was observed in abutting material samples where total PCB concentrations were ≥ 1 ppm with Aroclors 1242 and 1248 additionally observed in some samples. For some samples with < 1 ppm detected, only Aroclor 1248 was reported.

The range of PCBs observed in each type of material sampled is summarized below. Refer to Table 1 for building materials (i.e., concrete, asphalt, tile and grout) laboratory results and the samples' material type, location, adjacent surfaces, physical characteristics and identification number. Refer to Table 2 for soil and gravel laboratory results and the samples' material type, location and identification number.

Concrete – Interior Columns, Ceiling and Spandrels

A total of 6 samples of these materials were analyzed. PCB concentrations ranging from 0.23 ppm to 4.7 ppm were identified.

Concrete – Exterior Columns, Eaves, Spandrels and Base (slab-on-grade foundation)

A total of 18 samples of these materials were analyzed. This includes samples from the vertical face of the slab-on-grade foundation. PCB concentrations ranging from 0.5 ppm to 45 ppm were identified.

Concrete – Interior Base/Floor

A total of 11 samples of these materials were analyzed. PCB concentrations ranging from 0.18 ppm to 13 ppm were identified.

Interior - Tile/Grout Floor Covering

A total of 6 samples of these materials were analyzed. PCB concentrations ranging from 0.16 ppm to 0.91 ppm were identified.

Concrete – Exterior Sidewalk

A total of 2 samples of these materials were analyzed. PCBs were not detected with a maximum detection limit of 0.88 ppm.

Asphalt

A total of 2 samples of these materials were analyzed. PCBs were not detected with a maximum detection limit of 0.96 ppm.

Landscaping Gravel

A total of 2 samples of these materials were analyzed. PCBs were not detected with a maximum detection limit of 0.095 ppm

Soil

A total of 51 samples were analyzed. PCBs were observed at concentrations ranging from 0.15 ppm to 76 ppm.

2.4.3 Indoor Air

Sampling of indoor air for PCB homologs was conducted to establish a baseline. Certain PCB homologs (with a relatively low degree of chlorination, indicating lesser toxicity) were observed in all three samples with concentrations ranging from 221.7 ng/m³ to 467.1 ng/m³. Refer to Table 3 for indoor air laboratory results and the samples' location, flow rate, sampling duration, and identification number. The associated Alpha Report of PCB Analytical Results is included in Appendix B.

2.5 DATA USABILITY REVIEW

ATC reviewed the laboratory narratives associated with the samples to evaluate the data's usability. This included reviewing detection limits and surrogate recoveries for each sample. This information is shown on Tables 1, 2 and 3.

As reported in the laboratory narratives, due to the elevated PCB levels present in some samples, the EPA Method surrogate percent recovery for Samples 7A, 8A, 9A, 12A, Column A, Base A, Base Interior-12"-B, S-1A, S-2A, and S-3A were diluted out or obscured due to interference posed by the matrix of the samples, the surrogates quantified outside the associated quality

control allowable limits, as shown on Tables 1 and 2. ATC does not believe this impacts data usability since PCBs were observed in all these samples and these materials will either be managed as PCB Bulk Product Waste or PCB Remediation Waste as discussed in this Request and in most cases there are other samples that did have adequate surrogate recoveries. Therefore, all data is of suitable quality.

3 NATURE AND EXTENT OF PCB CONTAMINATION

This Section summarizes the media contaminated by PCBs and the extent of contamination in that media, as required by 40 CFR 761.61(a)(3)(i)(A) and 40 CFR 761.61(a)(3)(i)(C). When two or more similar materials were found in similar locations and had similar physical properties the highest PCB concentration observed in any sample associated with the material was assumed to be present in all similar materials. Figures 2-5 depict the approximate extents of each PCB-containing material.

- Interior and Exterior Window/Door Caulking (Samples 7A, 8A, 9A, and 12A) at the former Garage and Showroom is considered PCB Bulk Product Waste. The caulking is located between concrete and metal window/door frames at interior and exterior portions of the Site building. Abutting aluminum frames and associated glass panes and glazing of windows/doors will be treated as PCB Remediation Waste. Due to the limited size of the project, it was assumed that these materials will conservatively be disposed of collectively off-site with the caulking as material with PCB concentrations ≥ 50 ppm.
- Abutting concrete spandrels and ceilings: Spandrels up to 18 inches from PCB Bulk Product Waste caulk on interior spandrels and ceilings in the former showroom (Samples Spandrel Interior-9"-A, Spandrel Interior-18"-A, Ceiling East-6", Ceiling East-12", Ceiling West-6", and Ceiling West 12") contain PCBs between 0.23 and 4.7 ppm and will conservatively all be treated as PCB Remediation Waste within the limits shown on Figure 2.
- Interior concrete columns abutting PCB Bulk Product Waste caulks will conservatively be treated as PCB Remediation Waste. This is based on the laboratory results associated with the exterior columns (discussed below), which consist of the same column separated by storefront window units.
- Interior base (floor) concrete was observed to have PCBs in all samples at concentrations ranging from 0.18 ppm to 13 ppm. The higher levels were observed in proximity to window/door caulk identified as PCB Bulk Product Waste.

In the former Showroom concrete flooring within 6 inches from PCB Caulk will be treated as containing >1 ppm PCBs as a conservative measure based upon the data from samples Base A-Interior-Tile-6"-A, Base A-Interior-Grout-A, Base A-Interior-Tile-6"-B, Base A-Interior-Grout-B, Base C-Interior-Tile-6"-A, and Base C-Interior-Grout-A which reported PCBs concentrations between 0.15 and 0.91 ppm.

In the former Garage, the distance from the PCB Caulk where concrete was classified as >1 ppm PCBs varies from 6-inches to 7 feet (in a limited area) as shown on Figure 4. This limit was defined based upon the < 1 ppm PCB concentration observed in the bounding samples.

- Exterior concrete: As a conservative measure, all concrete surfaces on the northern former garage façade, eastern and northern former showroom façade and the western portion of the

showroom façade that contains the “storefront” window/door assembling will be considered to contain PCBs at > 1 ppm. This includes the exterior spandrels, columns, slab on grade foundation (exposed horizontal surface and vertical face), eaves and concrete beneath wooden fascia boards.

The northeastern-most column at the garage portion and the southwestern-most column at the showroom portion of the Site building have laboratory analysis results \leq 1 ppm (Sample Column C and Column D).

- Exterior Eave/Fascia Caulking at the Showroom of the Site building will be treated as PCB Bulk Product Waste. The caulking is located between concrete eaves and wood fascia boards on exterior showroom portions of the Site building. Abutting concrete eaves and wood fascia boards are assumed to have > 1 ppm PCBs.
- Asphalt up to two (2) feet from the PCB Bulk Product Waste caulks along the asphalt parking area abutting the northern facade of the former Garage. This material is conservatively considered to have > 1 ppm PCBs. PCBs were not detected in the asphalt samples 2 feet from the PCB Bulk Product (Base B-Vertical-2'-A and Base B-Vertical-2'-B).
- Soil around the perimeter of areas where the PCB Caulk is identified. Based upon the results of soil sampling, soil from 8 inches to 5 feet below grade and from 2 feet to 10 feet away from the building may contain PCBs > 1 ppm as summarized below and shown on Figures 3 and 5.

Soil/bedding to a depth of 20 inches below the asphalt surface within two feet of the storefront windows associated with the eastern area of the former Garage (associated with Samples S-19A, S-19B, S-19C, S-19C-20", S-20A, S-20B, S-20C, S-20D, S-20D-20", S-27 and S-28).

Soil/bedding to a depth of 8-inches beneath the asphalt surface along the remaining portion of the north side of the former Garage.

Soil/bedding to a depth of 8-inches below the concrete sidewalk within three feet of the eastern side of the former Showroom.

Soil located within three to ten feet of the storefront windows associated with the western side of the former Showroom. This area is divided into three areas (north, central and south).

1. North: Soil within 3 feet of the building to a depth of two feet.
 2. Central: Soil within 3 feet of the building to a depth of five feet.
 3. South: Soil within 10 feet of the building to a depth of three feet.
- Gravel (landscaping gravel) located adjacent to the northern and northwestern façades of the showroom and associated PCB Bulk Product Waste caulks does not require cleanup as a PCB Remediation Waste based on the associated laboratory analysis results being < 1 ppm (Samples Base A-Gravel-A and Base A-Gravel-B). These samples were collected from the façades associated with Base A.

The estimated quantity of PCB Bulk Product Waste and PCB Remediation Waste with PCBs >1 ppm is summarized in the following table. ATC considers the window(s)/door(s) located

between two (2) vertical support columns as one (1) unit. The locations of PCB-containing building materials and soil with concentrations >1 ppm are depicted on Figures 2 through 5.

Location	Material	Estimated Quantity
Showroom and Garage	PCB Bulk Product Caulk-Interior and Exterior Window/Door Caulk, Gray, Northern, eastern, and western facades	1,250 LF
	PCB Remediation Waste –Storefronts (this includes associated frames, glazing, and glass panes)	2,400 SF
	PCB Remediation Waste -Concrete at Interior columns, and spandrels	750SF
	PCB Remediation Waste -Concrete at Exterior columns, eaves, and spandrels, and bases (slab on grade foundation)	1,500 SF
Garage	PCB Remediation Waste -Limited area of concrete at Interior bases/floors.	100 SF
Showroom	PCB Bulk Product -Exterior Fascia Caulk, Northern, eastern, and western facades	200 LF
	PCB Remediation Waste -Exterior Fascia Boards, Wood, Northern, eastern, and western facades (abutting concrete eaves are discussed above)	200 LF
	PCB Remediation Waste -Interior Ceiling gypsum board chases and limited concrete	2,400SF
	PCB Remediation Waste -Concrete at Interior bases/floors – 6-inches from window/door caulk	70 SF
Exterior	PCB Remediation Waste -Concrete at Exterior Walkway adjacent to eastern side of showroom – 3 foot wide walkway	250 SF
	PCB Remediation Waste -Soil beneath sidewalk to 8 inches below concrete surface	6 CY
	PCB Remediation Waste -Asphalt adjacent to Garage – 2 feet from building	60 SF
	PCB Remediation Waste -Soil beneath Asphalt (adjacent to Garage) 8 to 20 inches below asphalt surface	1.5 CY
	PCB Remediation Waste -Soil adjacent to western façade of Showroom (north area to 2' below grade)	5 CY
	PCB Remediation Waste -Soil adjacent to western façade of Showroom (central area to 5' below grade)	10 CY

Location	Material	Estimated Quantity
	PCB Remediation Waste -Soil adjacent to western façade of Showroom (south area to 3' below grade)	20 CY

LF = Linear Feet, SF = Square Feet, CY = Cubic Yards

Indoor air within the Garage and Showroom (Samples LP-205, LP-225 and LP-281) contained PCBs homologs, with total PCB concentrations (i.e. sum of all PCB homologs) ranging from 222 to 468 nanograms per cubic meter (ng/m³). Homologs monochlorobiphenyls, diclorobiphenyls, trichlorobiphenyls, and tetrachlorobiphenyls were detected in all 3 indoor air samples. Homolog pentachlorobiphenyls was also detected in two of the indoor air samples (LP-205 and LP-225). Detection limits for all homologs in all samples were ≤ 0.010 ng/m³. It is also noted that the homologs detected have a relatively low degree of chlorination. PCBs with a lower percent chlorine content are less toxic than PCBs with a higher percent chlorine content meaning congeners in indoor air are the less toxic type. The detected concentrations are far below the OSHA 8-hour Permissible Exposure Limit (PEL) of 500,000 ng/m³. All concentrations were within the range of the EPA's guideline value of 70 to 600 ng/m³ for school settings. The current data set is considered "worst-case". It is believed that all indoor air levels of PCBs will be substantially lower following remediation. Additional indoor air sampling will be completed after completion of remediation and removal activities.

4 RISK-BASED METHOD FOR PCB REMEDIATION WASTES

In accordance with 40 CFR 761.61(c), a risk-based method for PCB remediation wastes is appropriate for the site as outlined below. The purpose of this section is to evaluate Site exposures and provide a justification for the controls proposed to address these. This section is intended to place the Site in the context of its environmental setting and the regulatory categories of environmental media set forth in the CFR.

4.1 PCB Source

There are two potential PCB sources at the Site, as described in Section 3 of this Request. 1) Interior/exterior door/window caulking was determined to contain PCBs at ≥ 50 ppm. This source material appears or is assumed to have impacted the abutting concrete, asphalt, soil, aluminum frames and glass, at levels > 1 ppm, as described in Section 3 of this Request. The other potential PCB source, 2) exterior fascia board caulking, has conservatively assumed to contain PCBs at levels ≥ 50 ppm. No laboratory analysis of this caulking has been completed. This source material is assumed to have impacted the abutting concrete eaves and wood fascia boards at levels > 1 ppm, as described in Section 3 of this Request.

4.2 Potential Human Receptors

Current human receptors who are likely to be present at the Site or in the surrounding environment, and who as a result, would likely be exposed to the PCBs at the Site are considered to be employees, visitors, construction and utility workers, and trespassers. The current likelihood of humans coming in contact with PCBs is considered to be low because the building is vacant and will remain vacant during renovations. The proposed PCB Bulk Product and PCB Remediation Waste removal and encapsulation is believed to mitigate future human exposure to PCBs.

4.3 Potential Future Exposure Points and Pathways

Potential future exposure points in relation to this Request are locations of potential contact between a human and PCBs. For each area below, the potential human exposure pathways include dermal absorption and inhalation of PCBs:

- Interior and Exterior Window/Door Caulking throughout the showroom and garage portions of the Site building will be removed. Abutting materials above 1 ppm will be either removed or encapsulated, as described in Section 5. The objective of proposed removal and encapsulation is to eliminate human and environmental exposure pathways to PCBs at these areas.
- Indoor air currently contains PCBs Homologs ranging from 222 to 468 ng/m³. These levels are well below the OSHA 8-hour Permissible Exposure Limit (PEL) of 500,000 ng/m³ and within the range of the EPA's guideline value of 70 to 600 ng/m³ for school settings. It is also noted that the homologs detected have a relatively low degree of chlorination. PCBs with a lower percent chlorine content are less toxic than PCBs with a higher percent chlorine content meaning congeners in indoor air are the less toxic type. It is anticipated that will the proposed PCB abatement and renovations (including HVAC upgrades) completed that the indoor air concentrations will drop.
- Exterior Fascia Caulking throughout the showroom portions of the Site building. Note the abutting concrete eaves are discussed above. The objective of proposed removal is to eliminate human and environmental exposure pathways to PCBs at these areas.

The removal activities and encapsulation will be shown to be performing adequately to manage residual PCBs by post-abatement surface wipe and indoor air sampling. If wipe samples have concentrations of greater than 1 ug/100 cm² additional evaluations will be performed. For indoor air it is anticipated that the PCB abatement activities and improved HVAC system will lead to improved indoor air quality that will lead to PCB concentrations, if any, to be even lower and still within the EPA's guideline range for school settings that are assumed to contain cafeterias and food preparation areas.

5 RISK-BASED CLEAN-UP PLAN

This Section details the clean-up plan, as required by 40 CFR 761.61(a)(3)(i)(D). The primary components of the risk-based clean-up plan are:

- 1) Remove all PCB Bulk Product Waste (i.e., caulking) and associated window/door units (with glass panes, frames, and glazing) at the northern, eastern, and western facades of the former showroom and garage, and exterior fascia boards from the northern, eastern, and western facades of the former showroom. Carpet/mastic with PCBs less than 10 ppm will also be removed and disposed off-site with the PCB Bulk Product Waste as a conservative measure. The interior window unit and exterior fascia boards from the showroom, as well as the associated PCB Bulk Product Waste (i.e., caulking) have been removed as of the date of this submittal. These materials are being stored on-Site within a secured and marked dumpster located on the eastern portion of the property;

- 2) Encapsulate interior concrete spandrels, and columns entirely, as well as portions of the bases/floors and ceiling, within the former showroom and garage identified as PCB Remediation Waste. These limits are shown on Figures 2 and 4. The encapsulant may consist of a coating (i.e. SikaGard 62 or 550, Neogard, Modac and/or Vikote 9080), membrane (i.e. Grace Ice & Water Shield and/or vinyl composition tile) or other engineered material (i.e., Thermax insulation panels). Interior concrete spandrels and columns have been encapsulated with SikaGard 550 as of the date of this submittal;
- 3) Encapsulate exterior concrete spandrels, columns, bases, and eaves entirely at the northern, eastern, and western facades of the former showroom and garage. The encapsulant may consist of a coating (i.e. SikaGard 62 or 550, Neogard, Modac and/or Vikote 9080), membrane (i.e. Grace Ice & Water Shield) or other engineered material (i.e., poured rubber membrane). Exterior concrete eaves and columns have been encapsulated with SikaGard 550 as of the date of this submittal;
- 4) Remove exterior concrete walkway, asphalt, and underlying soil adjacent to the eastern portion of the former showroom and northern portion of the garage identified as PCB Remediation Waste. The exterior concrete walkway and asphalt have been removed as of the date of this submittal. These materials are being stored on-Site within a secured and marked dumpster located on the eastern portion of the property; and
- 5) Managing all wastes generated in accordance with 40 CFR 761 and 310 CMR 30.000. Soils will also be managed in accordance with MCP requirements.

The sections below and Appendix C and D provide details on the proposed remediation work.

The work shall be performed in accordance with the procedures outlined in this document as well as federal Occupational Safety and Health Administration (OSHA) 29 CFR 1926.1101 Regulations, and Massachusetts Department of Environmental Protection (DEP) 310 CMR 7.15 Regulations. ATC believes that the work plan outlined in this submittal is adequate to properly manage PCB Bulk Product Waste and PCB Remediation Waste, and control future exposures to residual PCBs in concrete at the Site.

ATC performed a lead containing paint (LCP) determination on representative interior and exterior surfaces of the Site building by means of X-Ray Fluorescence (XRF) Analysis, using a RMD LPA-1 XRF Lead Paint Analyzer. The survey focused on areas identified by Harvard as to be disturbed during proposed building renovations. Lead paint was identified at the proposed renovation areas. Work impacting these painted surfaces requires the workers to follow the Occupational Safety and Health Administration (OSHA) Lead in Construction standard at 29 CFR 1926.62. Painted surfaces that will be disturbed during this project may also contain cadmium and/or chromium, which provides for another level of care that will be taken when handling building materials to comply with OSHA regulations found at 29 CFR 1926.62. Although not appended to this Request, the project specifications include a section on worker protection according to the OSHA regulations at 29 CFR 1926.62. As noted above, ACM was not identified in the materials to be removed under this Request.

5.1 ASSIGNMENT OF WORK

Clean-up activities will be performed by DEC-TAM Corporation (DECTAM) of North Reading, Massachusetts. DECTAM has been provided with this Request and Specification, any

forthcoming approvals and conditions issued by the EPA. The Specification is enclosed as Appendix C.

DECTAM will perform the project work in a manner to meet or exceed the means and methods presented in this Request. The contractor work plan is attached as Appendix D.

ATC will provide periodic oversight and review of the clean-up plan activities prior to, during, and after their performance. ATC will monitor compliance with this Request, visually confirm that identified caulks, window/door units, and fascia boards are removed and collect confirmatory wipe samples from encapsulated surfaces.

ATC will also monitor total dust levels when the remaining excavation of PCB impacted soils is underway or if grinding, if any, of exterior PCB Bulk Product Waste materials is performed. Total dust monitoring will be performed between the work area and perimeter fence. Work will stop and additional engineering controls deployed if dust levels exceed $150 \mu\text{g}/\text{m}^3$ over background conditions. Background will be established by monitoring dust levels prior to the start of any demolition work. A dust monitor will be set up outside the work zone in the areas nearest the site perimeter on each side of the vent building that active work is occurring. Monitoring will not occur when there is precipitation.

5.2 PROCEDURES FOR IMPLEMENTATION

Each of the primary components of the risk-based clean-up plan is detailed in the following subsections. The components will be performed generally in the order in which they are listed. Refer to the attached Specifications and DECTAM workplan for additional details (Appendices C and D). The extent of PCB Bulk Product and PCB Remediation Waste removal and PCB Remediation Waste encapsulation is shown on Figures 2 through 5.

All workers removing PCB Bulk Product Waste and PCB Remediation will have OSHA HAZWOPER training and work under a site specific health and safety plan. When active PCB abatement is occurring, access to the general construction population will be controlled.

5.2.1 Communication Plan

The building is currently vacant and will not be accessible to the public during the abatement work. Temporary construction fencing has been erected around the southwest portion of the Showroom where PCB concentrations in soil are being addressed by this Request and an MCP plan. The building is located along a public roadway and accessible to the general public. Harvard will secure and post the work area prior to starting work. Appropriate Harvard staff will be briefed on the project scope prior to the initiation of PCB abatement/encapsulation activities at the Site. The proposed work as it relates to PCB abatement at the Site will be reviewed during the meeting(s).

5.2.2 Caulk Removal

All caulk and backer rod, if any, within the subject joints at the Site will be removed by properly trained personnel using hand tools in compliance with OSHA regulations. No grinding or wire wheels will be used to remove the materials without a task specific evaluation to confirm that the work can be performed to confirm that dust and debris can be adequately contained within the immediate work area.

The work area will be demarcated with caution tape and signage at a distance to keep unauthorized workers and visitors out of the work area. A tool drop zone and personal decontamination facility will be established contiguous to the work zone. A clean zone will be established along with waste stream pathways. Engineering controls will be used to capture falling sealant and abutting material debris. Polyethylene drop cloths will be utilized to capture any falling material. The drop cloths will be placed beneath each active removal area. Additional polyethylene sheeting will be used as required to capture materials from the sides of the work areas.

Hand tools will be used to remove caulk to the extent practicable. Caulk cutters may be used to remove caulks. If grinding or other mechanical means are required, the task will be evaluated in the field to determine if more rigorous containment is required beyond using localized dust controls (e.g. equipment shrouds and/or HEPA vacuum attachments) is required.

At the end of each work shift, all clean materials will be stored and the work zone secured. PPE and materials used during caulk removal will be managed as discussed in Section 5.3 at the end of each use. Tools used, will either be managed as discussed in Section 5.3 or decontaminated by double wiping with diesel or solvent soaked rags. If the tools are to be decontaminated, the rags used to wipe down the tools will be disposed of as discussed in Section 5.3 of this Request. Before taking down containment in work areas, visible dust and debris will be removed with HEPA vacuum and by hand. When using staging, areas will be cleaned before staging is moved.

5.2.3 Window/Door Unit and Fascia Board Removal

All window/door units at the Site, and fascia boards from the former showroom portions of the Site building, will be removed by properly trained personnel using hand tools in compliance with OSHA regulations. No grinding or wire wheels will be used to remove the materials without a task specific evaluations to confirm that the work can be performed to confirm that dust and debris can be adequately contained within the immediate work area.

5.2.4 Asphalt, Exterior Concrete (Sidewalk) and Soil Removal

Asphalt within two feet of the northern garage façade and concrete sidewalk within three feet of the eastern showroom façade will be removed by properly trained personnel using heavy equipment. Underlying soil to a depth of eight to 20 inches will be removed from these areas. Within three to 12 feet of the western showroom façade soil will be removed to depth of 2 to 5 feet below grade. Means will be deployed to control dust and ensure that there is no release of debris and soil as it is moved from the excavation to the waste storage container. Figures 3 and 5 show the limits of excavation.

The asphalt, concrete and soil to 8-inches below grade have been removed by DECTAM from the northern side of the Garage and eastern side of the Showroom as of the date of this submittal. These materials are being stored on-Site within a secured and marked dumpster located on the eastern portion of the property.

5.2.5 Concrete Surface Repair

Damaged concrete surfaces will be repaired prior to encapsulant application. At a minimum, this includes areas where concrete samples were collected and areas potentially damaged during window/door unit removal. When working within areas identified as being impacted by the subject caulk, as detailed in Section 3, grinding or chipping power tools will only occur after it is determined that work cannot be satisfactorily completed with non-power tools. If required, grinding/chipping with power tools will only occur after caulk is removed.

All work will be performed within the same type of containment used for caulk removal. If this containment spans an area significantly greater than the caulk removal containment area, a second containment will be constructed to further contain debris.

5.2.6 Encapsulant Application

Encapsulant is to be applied to concrete surfaces with PCBs > 1 ppm identified as PCB Remediation Waste that are not removed. The extent of these surfaces is discussed in Section 3 and shown on Figures 2 through 5. The selected encapsulation's intent is to seal or cover the concrete surfaces that might contain residual PCBs > 1 ppm so as to prevent direct contact by building users or the weather. The encapsulant may consist of a coating (i.e. SikaGard 62 or 550, Neogard, Modac and/or Vikote 9080), membrane (i.e. Grace Ice & Water Shield, vinyl composition tile and/or rubber membrane) or engineered barriers (e.g. Thermax insulation panels)

Rolled- or sprayed-on encapsulants such as SikaGard 62 and 550, Vikote 9080, Neogard, Modac, etc. will be applied in at least two layers and shall be designed to adhere to the subject surfaces, not require recoating for at least 10 years, and be oleophobic, elastomeric, epoxy, and/or similar. This type of encapsulant will, at a minimum, be applied to the interior concrete bases/floor of the garage.

Currently, SikaGard 62 and 550 are the proposed rolled- or sprayed-on encapsulant. SikaGard 62 is a 2-component, 100% solids, moisture-tolerant epoxy resin. It produces a high-build, protective, damp proofing and waterproofing vapor-barrier system. It is used as a high build, corrosion-resistant, protective coating, as a protective lining for secondary containment structures or as a seamless flooring system. SikaGard 550 is an elastomeric, crack-bridging, anti-carbonation, acrylic protective coating. It provides protection to reinforced concrete from the ingress of carbon dioxide and other aggressive gasses. It offers high resistance to chlorides and other waterborne salts and excellent UV light resistance. However, Vikote 9080 may be used in lieu or in addition due to its ability to be applied in winter-low temperature conditions and the schedule of the proposed renovations. This type of encapsulant will, at a minimum, be applied to the subject exterior concrete spandrels, soffits, and columns of the Site building.

Encapsulants that are membranes or other engineered materials, such as Thermax insulation panels, Grace Ice & Water Shield, vinyl composition tile, etc., will be installed over the subject surfaces via adhesive or secured with fasteners and are designed to provide an impervious barrier for at least 10 years.

Thermax insulation panels are currently proposed to be installed on interior concrete ceilings. These panels are mechanically fastened to tracks. The tracks will be mechanically fastened to the subject concrete surfaces in a manner to limit dust and debris generation.

Vinyl composition tiles are currently proposed to be installed on interior concrete bases/floor in the former showroom and would serve as an encapsulant within the 6-inch zone from the PCB Caulk. The tiles will be applied with a troweled-on adhesive or peel and stick method.

5.2.7 Window/Door Unit and Fascia Board Replacement

The voids where window/door units and fascia boards are removed will be replaced with appropriate new window/door units and fascia boards. The new vinyl window/door unit frames are of greater width than, and will fully straddle, the to-be-removed PCB Bulk Product Waste caulking. This will provide an impervious barrier for underlying surfaces that might have residual PCB impacts from the removed caulk. Replacement activities in the immediate vicinity of the to-be-removed PCB Bulk Product Waste caulking will be conducted in a manner to limit dust and debris generation.

5.2.8 Post-Remediation Sampling

Removal of PCB Bulk Product Waste will be confirmed based upon visual observation.

Soil sampling completed to date has delineated the limits where soil impacts have decreased to < 1 ppm. All impacted soil greater than 1 ppm will be removed and ATC therefore does not propose post-excavation sampling. Excavations will be monitored and if unusual conditions (significant staining, buried caulk, strong odors) are observed, post-excavation soil samples will be collected from the area for PCB analysis. Sampling for other parameters to facilitate off-site soil disposal may also be required.

To confirm that the encapsulant is adequately sealing residual PCBs > 1 ppm, wipe sampling of the encapsulated concrete surfaces at areas that would be accessible to building users will be performed. The wipe samples will be collected from encapsulated locations immediately adjacent to (within 6 inches of the edge) where PCB Bulk Product Waste was removed.

The wipe samples will be collected per standard wipe test protocols in accordance with 40 CFR 761.123. The samples will be collected utilizing the applicable procedures identified in Wipe Sampling and Double Wash/Rinse Cleanup as recommended by the Environmental Protection Agency PCB Spill Cleanup Policy (June 23, 1987, Revised and Clarified on April 18, 1991). Sampling locations will replicate typical human contact. A one-use template will be used to delineate the 100 cm² sampling area. The samples will be analyzed at a certified laboratory for PCBs via EPA Method 8082 and extracted via EPA Method 3540C.

The need to perform additional evaluations to confirm that encapsulant is performing adequately to seal residual PCBs in concrete will be triggered if wipe samples have concentrations of $>$ than 1 ug/100 cm².

Following completion of the renovation project, post-remedial indoor air samples will be collected to ensure that indoor air PCB concentrations remain below levels of concern. The sampling procedures and locations will mimic those outlined in Section 2.4.3 with the addition of an ambient air sample.

5.2.9 Monitoring and Maintenance

A Long-Term Monitoring and Maintenance Implementation Plan will be submitted after remediation has occurred. The results of encapsulation, post-remediation confirmatory sampling and indoor air sampling will be considered in the submittal.

It is currently anticipated that, beginning one year following the confirmatory wipe sampling, Harvard will perform an inspection of the encapsulated surfaces at the Site, with a focus on those areas that would be directly accessible to building occupants.

The inspections will be primarily visual in nature, and will be intended to confirm that the encapsulated surface is in good condition. The inspector will visually observe all encapsulated surfaces at the Site. Special attention will be paid to the encapsulant where PCB Bulk Product Waste caulking was removed and will be focused on evidence of deterioration of the encapsulant, including wear, chipping, or flaking, missing membrane or damaged engineered material.

Inspections, and any necessary repairs to the encapsulated surface, will be documented on an official inspection form, and the forms will be maintained by Harvard for the life of the building. As noted above, a Long-Term Monitoring and Maintenance Implementation Plan will be submitted at a later date.

5.2.10 Deed Notice

Harvard will record a deed notice for the property. The deed notice will follow the TSCA requirements outlined at 40 CFR 761.61(a)(8). In addition, as discussed in Section 5.5, Harvard may place an Activity and Use Limitation (AUL) in accordance with the MCP on the property to address historic soil contamination that may remain in place. The TSCA deed notice requirements may be incorporated into the AUL. A copy of the deed notice will be provided to the EPA.

5.3 Waste Management

All waste management will be in accordance with applicable state and federal regulations. This includes 40 CFR 761.61 or 761.62 and 310 CMR 30.000 and sent to a licensed facility that will receive and retain PCB Bulk Product Waste and PCB Remediation Waste, in accordance with EPA regulations. Details on waste management are provided in the Technical Specification in Appendix C.

The types of waste that will be generated during the risk-based clean-up plan described in Section 5.2 include:

- 1) PCB-containing caulking (PCB Bulk Product Waste) (PCBs $>$ 50 ppm);

- 2) Window/Door units (managed as containing > 50 ppm of PCBs);
- 3) Wood Fascia Board (managed as containing > 50 ppm of PCBs);
- 4) Abutting Concrete, soil, and asphalt (managed as containing > 50 ppm of PCBs);
- 5) PPE and containment materials; and
- 6) Particulates and filters from dust management.

PCB-containing caulk will be double bagged, containerized and labeled as “PCB Bulk Product Waste” for disposal. As a conservative measure, all solid wastes listed above, as well as carpet/mastic with levels below 10 ppm, will be managed as if they contain > 50 ppm at a TSCA landfill. This includes window/door units, fascia boards, filters, particulates, PPE and equipment that cannot be fully decontaminated, as well as dust/debris collected from established PCB removal work areas.

PCB waste containers will be placed in a secure portion of the property. This area will be approved by Harvard and will be placarded as containing PCB waste with markings meeting the EPA requirements of 40 CFR 761.40 and 761.45, and 310 CMR 30.000.

PPE and containment materials, that has debris that might contain PCBs, will be classified as PCB Remediation Waste, properly containerized and managed in accordance with 761.61(a)(5). The container(s) will be labeled per 40 CFR 761.61 and 761.79. Once full, the container(s) will be transported off-site for proper disposal.

5.4 SCHEDULE FOR IMPLEMENTATION

In accordance with the TSCA regulations at 40 CFR 761.61(a)(3), this section describes the schedule for implementation. Limited initial work has started as outlined above. Harvard estimates that the cleanup outlined in Sections 5.2.1 through 5.2.4 of this Request will take up to 6 months in conjunction with overall renovation work.

5.5 STATE OR LOCAL PERMITS AND APPROVALS

This section identifies the state and/or local permits and/or inspections that will be necessary during implementation of the clean-up plan. A building permit for general construction has been obtained and notification made to MassDEP via BWP AQ-06 Notification Prior to Construction or Demolition to cover the overall renovation project. The MassDEP has been copied on this Request.

It is also noted that there are two open Release Tracking Numbers (RTNs), RTN 3-26932 and RTN 3-30396 associated with the subject site. Response actions for RTN 3-26932 and RTN 3-30396 are being overseen by a Licensed Site Professional at CDM. RTN 3-26932 was assigned to historically impacted/urban fill soil conditions in July 2007 when a Utility Related Abatement Measure (URAM) was submitted to the MassDEP under the Massachusetts Contingency Plan ("MCP") to facilitate the construction of a 72-inch storm drain. Historically impacted/urban fill soils are associated with historic filling of wetlands and/or the previous uses of the properties that make up the site (e.g. a former building and wrecking company and a paint and varnish manufacturer).

The current site limits for RTN 3-26932 are larger than the 168 Western Avenue property site. RTN 3-26932 includes 114 & 168 Western Ave, 28 Travis Street and the lot directly opposite the address formerly known as 90 Windom Street in Allston, Massachusetts. Compounds detected at the RTN 3-26932 site primarily include metals, semivolatile organic compounds (SVOCs), and petroleum hydrocarbons in soil.

At 168 Western Avenue, one monitoring well was installed as part of the RTN 3-26932 Phase II work just south/southeast of the building. Sampling of the well in 2010 did not identify impacts to groundwater. In addition, one soil boring was installed in the parking lot located east of the 168 Western Avenue building. Concentrations of lead were in excess of the default lead standard (which is very typical for historically impacted urban fill soils) were identified. No other contaminants (including asbestos) have been identified in soil above regulatory thresholds at the 168 Western Avenue project site during the RTN 3-26932 Phase II work.

The Phase II Comprehensive Site Assessment (CSA) for RTN 3-26932 concluded that a condition of No Significant Risk exists at the site based on the current site usage and conditions of the site. A condition of No Significant Risk does not exist for unrestricted future use. It is currently anticipated that an Activity and Use Limitation will be filed in the coming months to restrict site use and require barriers (e.g., pavement) to be protect against direct exposure to compounds detected in soil (e.g., lead). The AUL will also require a soil management plan for future intrusive work at the site. After the AUL is recorded, a Class A-3 RAO will be filed. Currently, Harvard is conducting title research necessary for notification of record interest holders and preparing survey plans so that the AUL may be recorded and the RAO filed. The Phase IV Remedy Implementation Plan for RTN 3-26932 that recommended this course of action was submitted in July of 2011.

The second open RTN associated with the 168 Western Avenue project site, RTN 3-30396, is the result of PCB testing performed in connection with the preparation of this Request. More specifically, ATC collected soil samples below the storefront window/door units as described above.

The PCB-impacts to soil were reported to the MassDEP on October 20, 2011, RTN 3-30396 and the MassDEP approved initial Immediate Response Actions (IRA). The approved activities were performing additional investigations, restricting access to the area represented by the sample by

installing a fence and covering exposed soil with polyethylene sheeting. The work covered by this Request will meet the requirements of TSCA and the MCP as it relates to soil impacts.

The investigations completed are summarized in this Request. A 6-foot chain link fence was installed around the area of concern and a layer of poly/plastic sheeting was placed over the area to control access and dust. Additional soil response actions for this Plan are addressed under Section 5.2.4. An IRA Plan will be prepared and submitted to MassDEP by December 19, 2012, that reflects these PCB soil management procedures. The goal is to remove all soils with PCB concentrations greater than 1 ppm to support unrestricted property use under TSCA and the MCP. IRA Status Reports will be prepared and submitted starting April 17, 2012, and every 6-month thereafter until all PCB soil management work is completed.

The TSCA unrestricted use cleanup requirement of 1 ppm is more restrictive and drives the remediation approach. Response actions for the MCP activities are being overseen by William Swanson, Licensed Site Professional (LSP) at CDM of Cambridge, Massachusetts in coordination with ATC.

Finally, it is also noted that there is one historic RTN (3-17965) associated with 168 Western Avenue. In the late 1990's evidence of VOCs detected in groundwater were attributed to the adjacent Flint Cleaners (170 Western Avenue), a dry cleaner that had been in operation since the 1950s. A Downgradient Property Status (DPS) Opinion was filed with MassDEP for the site and no further action was required. As noted above, groundwater sampling at 168 Western Avenue was conducted in 2010 as part of RTN 3-26932 activities. The groundwater sampling did not detect any VOCs in groundwater above laboratory detection limits.

December 21, 2011

6 OWNER CERTIFICATION

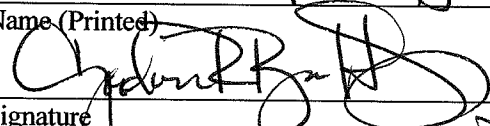
This Section of the Notification provides the certification required by 40 CFR 761.61(a)(3)(i)(E).

On behalf of Harvard Real Estate-Allston, Inc., I certify that the Risk-Based Clean-up Plan proposed in this document will meet the following requirements:

All sampling plans, sample collection procedures, sample preparation procedures, extraction procedures, and instrumental/chemical analysis procedures used to assess or characterize the PCB contamination at the cleanup site are or will be on file at the following location and are available for U.S. EPA inspection:

Gordon Reynolds
Harvard University
Director of Environmental Affairs and Project Support Services
46 Blackstone Street
Cambridge, MA 02139
(617) 496-1359
gordon_reynolds@harvard.edu

Gordon R. Reynolds, Jr
Name (Printed)


Signature

DIRECTOR OF ENVIRONMENTAL + PROJECT SUPPORT SERVICES
Title

12/21/2011
Date

* On behalf of Harvard Real Estate-Allston, Inc. and not individually.

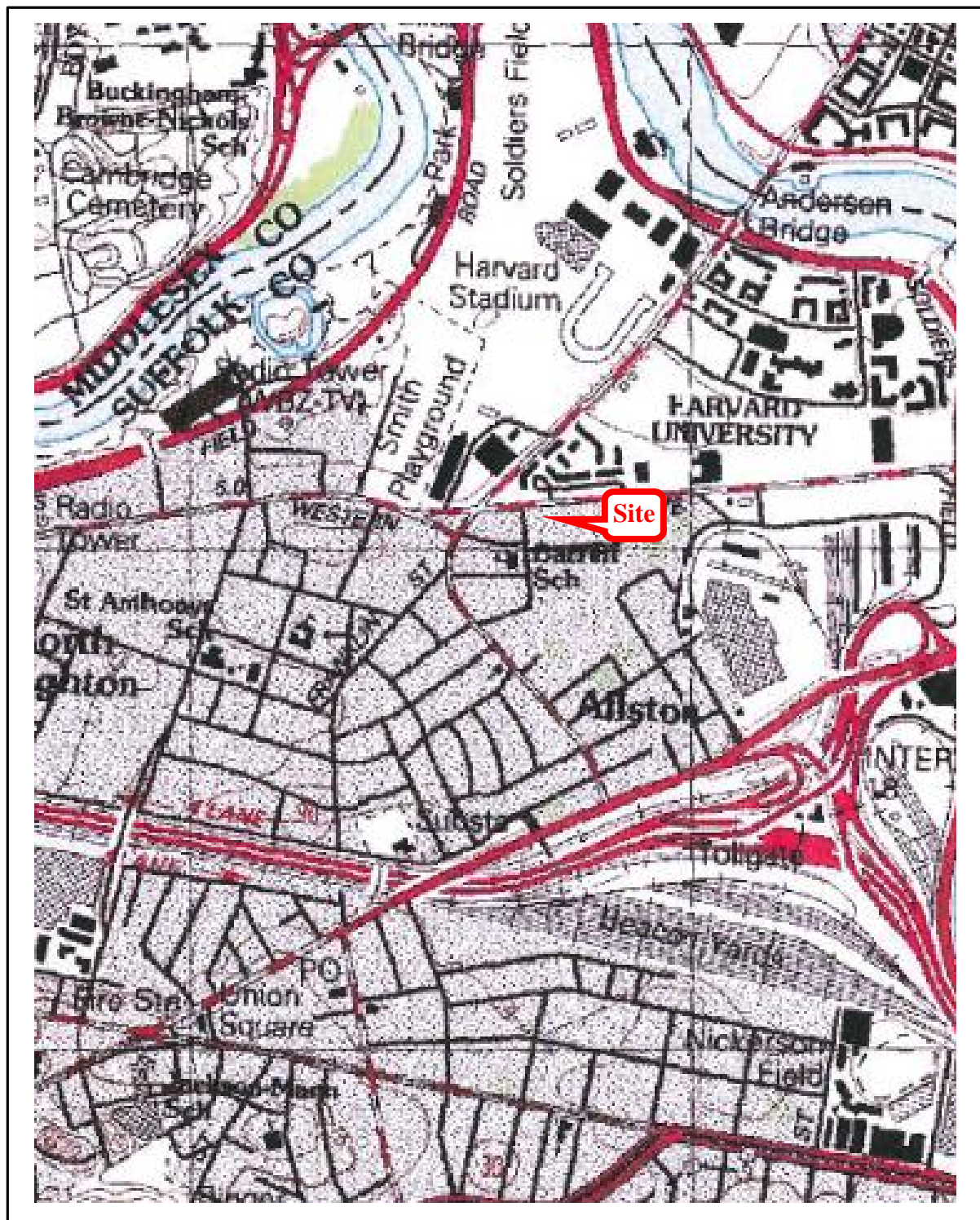


Figure 1: Site Vicinity Map

Source:

USGS 7.5 Minute
Cambridge, MA Quadrangle Map
Scale: 1:25,000
(1991)



TSCA Risk-Based Cleanup of PCBs

Harvard
168 Western Avenue
Allston, Massachusetts



Project Number: 060,21865.0014

SOURCE:
99 CAMBRIDGE ARCHITECTURE
AND INTERIORS
BOSTON, MASSACHUSETTS

Date: DECEMBER 13, 2011

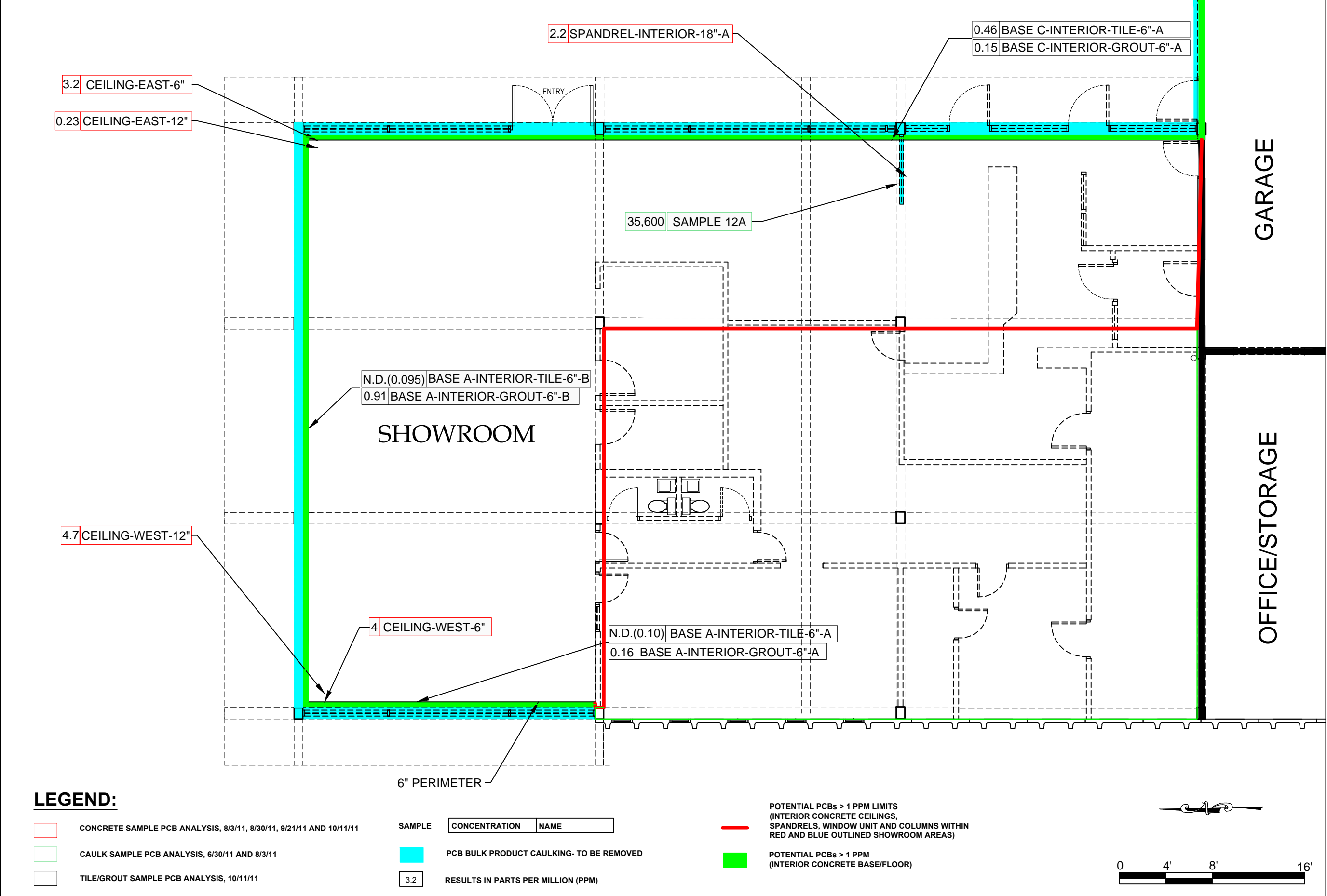
Revisions		
Number	Description	Date

Scale:

PCB SAMPLE
LOCATIONS
AND EXTENTS

SHOWROOM INTERIOR

FIGURE 2





Project Number: 00821005.0014

SOURCE:
98 CAMBRIDGE ARCHITECTURE
AND INTERIORS
BOSTON, MASSACHUSETTS

Date: DECEMBER 5, 2011

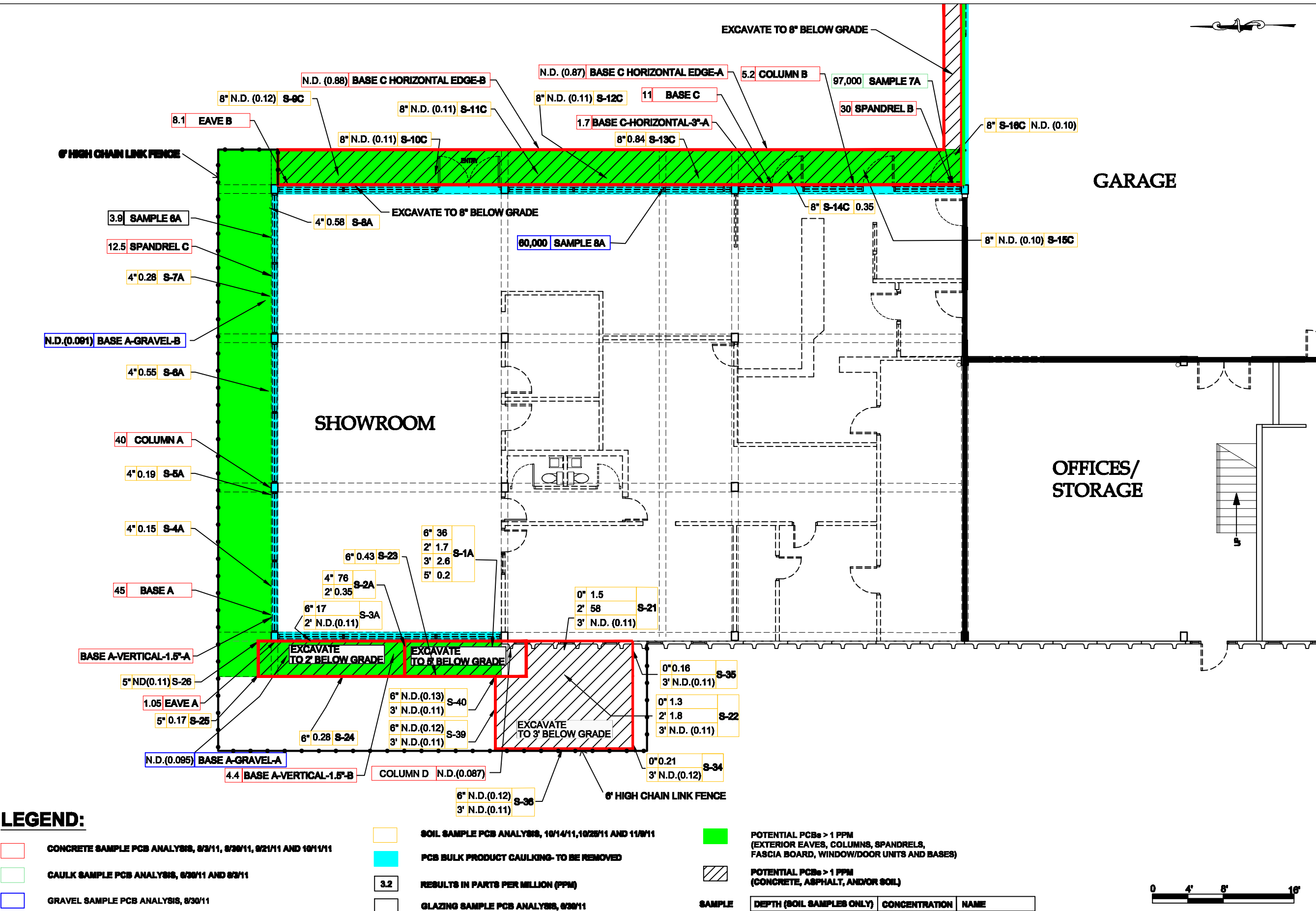
Revisions

Number	Description	Date

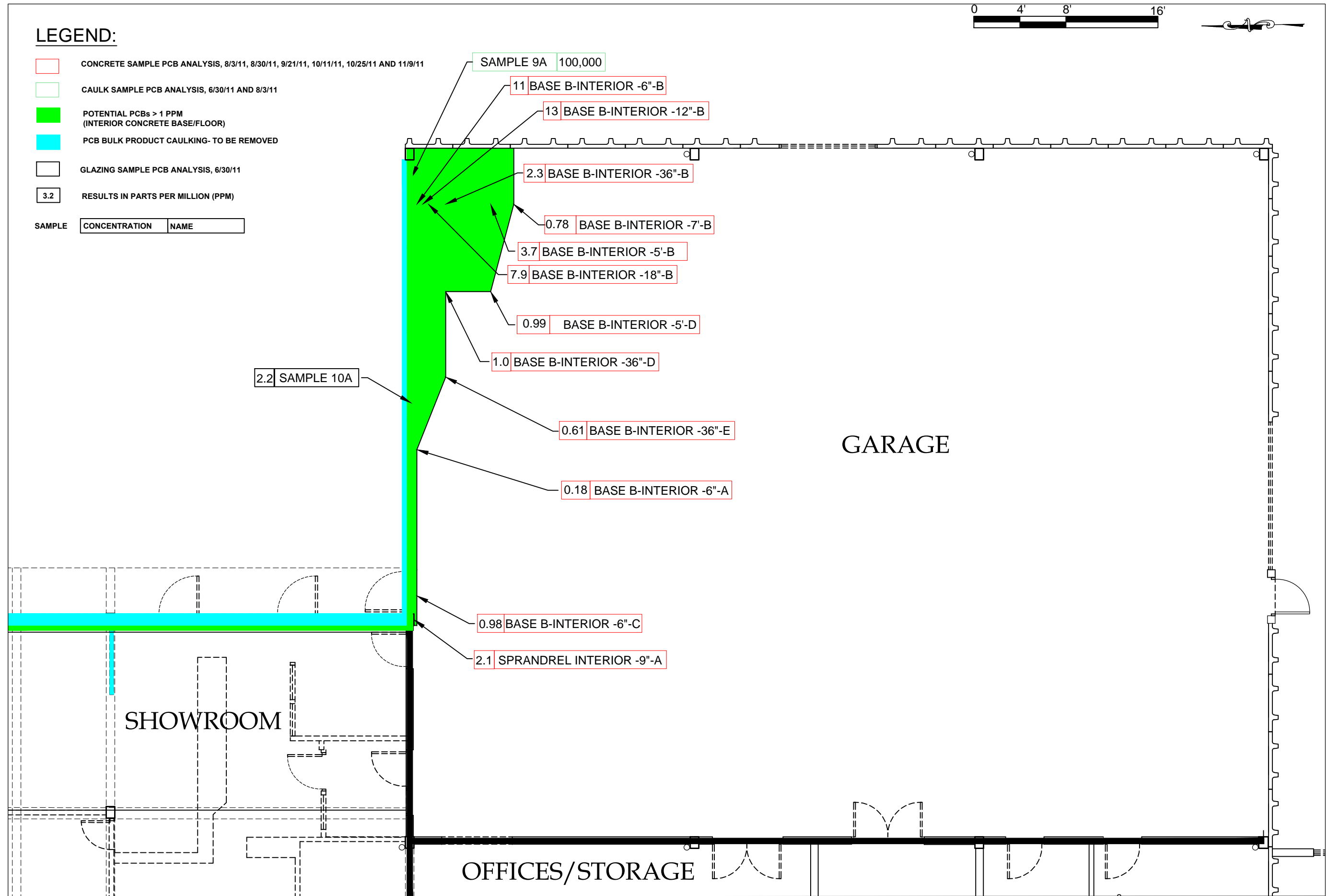
PCB SAMPLE
LOCATIONS
AND EXTENTS

SHOWROOM EXTERIOR

FIGURE 3



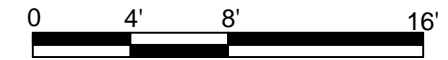
Number	Description	Date



LEGEND:

- CONCRETE SAMPLE PCB ANALYSIS, 8/3/11, 8/30/11, 9/21/11 AND 10/11/11
- CAULK SAMPLE PCB ANALYSIS, 6/30/11 AND 8/3/11
- ASPHALT SAMPLE PCB ANALYSIS, 9/21/11
- NON SOIL / BUILDING MATERIAL / AGGREGATE SAMPLE
PCB ANALYSIS 10/14/11
- POTENTIAL PCBs > 1 PPM
(EXTERIOR EAVES, COLUMNS, SPANDRELS,
FASCIA BOARD, WINDOW/DOOR UNITS AND BASES)
- POTENTIAL PCBs > 1 PPM
(CONCRETE, ASPHALT, AND/OR SOIL)
- PCB BULK PRODUCT CAULKING- TO BE REMOVED
- SOIL SAMPLE PCB ANALYSIS, 10/14/11 AND 10/25/11
- RESULTS IN PARTS PER MILLION (PPM)

SAMPLE	DEPTH (SOIL SAMPLES ONLY)	CONCENTRATION	NAME
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168 Western
Avenue
Allston, Massachusetts
First Floor



600 W Cummings Park, Ste. 5450
Woburn, MA 01801-6350
Tel: (781) 932-9400 Fax: (781) 932-6211

Project Number: 060.21865.0014

SOURCE:
99 CAMBRIDGE ARCHITECTURE
AND INTERIORS
BOSTON, MASSACHUSETTS

Date: DECEMBER 14, 2011

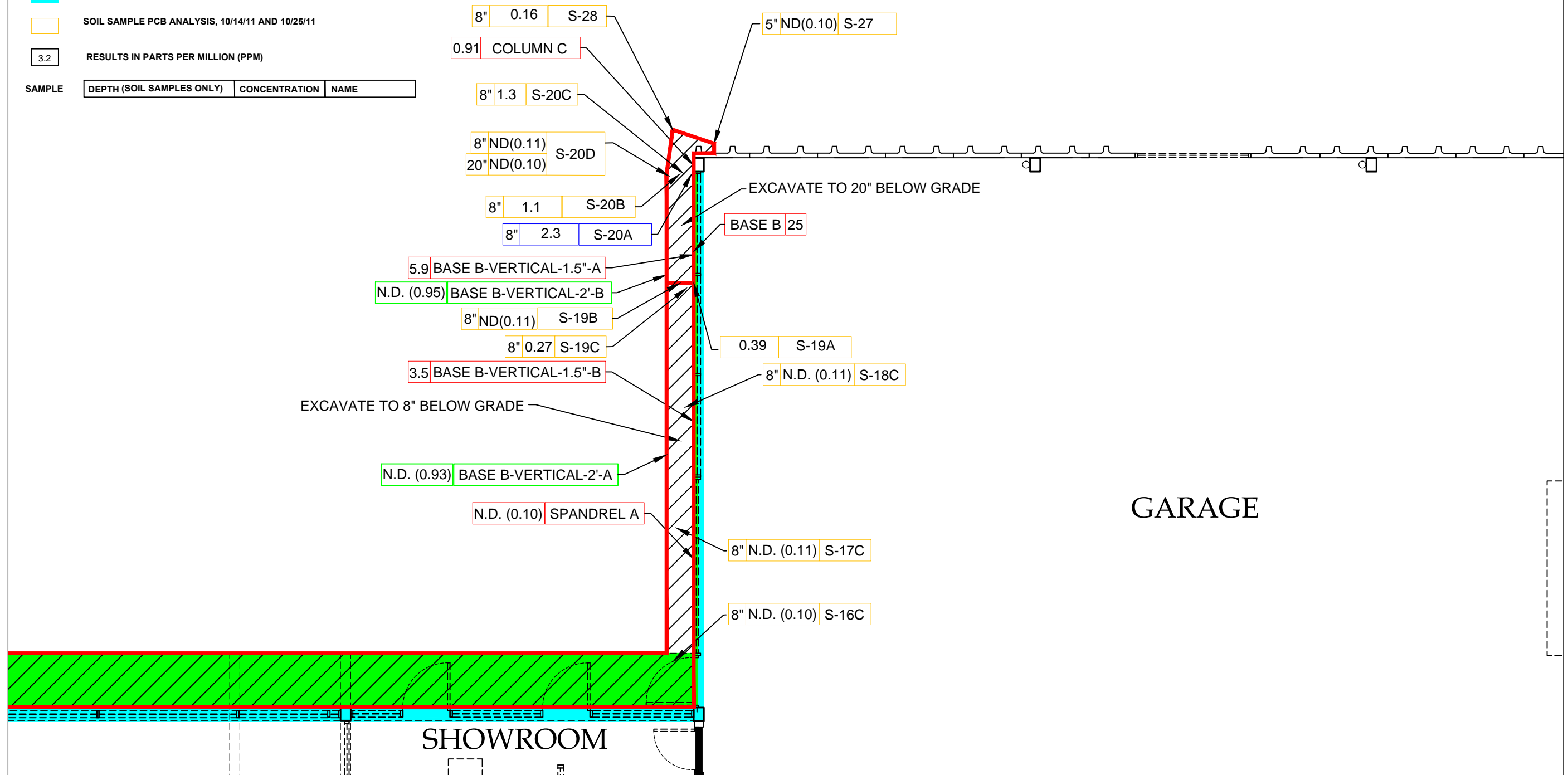
Revisions

Number	Description	Date

PCB SAMPLE
LOCATIONS
AND EXTENTS

GARAGE EXTERIOR

FIGURE 5



Tables

Table 1
PCB Building Material Survey Data
Harvard University
168 Western Avenue
Allston, Massachusetts

Sample No.	6A	7A	8A	9A	10A	12A	Spandrel A	Spandrel B
Material	Exterior Window Glazing	Exterior Window/Door Caulking	Exterior Window Caulking	Interior Window/Door Caulking	Interior Window/Door Glazing	Interior Window Caulking	Exterior Concrete at Spandrel	Exterior Concrete at Spandrel
Location	Showroom, North Façade	Garage, North Façade	Showroom, East Façade	Garage, North Façade	Garage, North Façade	Showroom, East Façade	Adjacent to Garage Window, North Façade	Adjacent to Garage Door, North Façade
Charateristics	Black/Smooth/Soft/Dry/Rubbery	Gray/Smooth/Soft/Dry/Rubbery	Gray/Gritty/Hard/Dry/Brittle	Gray/Smooth/Semi-Soft/Dry/Semi-Rubbery	Black/Smooth/Soft/Dry/Rubbery	Gray/Smooth/Soft/Dry/Rubbery	Concrete	Concrete
Adjacent Materials	Metal Frame and Glass Pane	Masonry Surround and Metal Frame	Masonry Surround and Metal Frame	Masonry Surround and Metal Frame	Metal Frame and Glass Pane	Metal Frame and Dry wall	Concrete and Window Glazing	Concrete and Door Caulking
Lab Sample ID	11G00369-01	11G0036-02	11G0036-03	11G0036-04	11G0036-05	11H0171-12	11H0171-01	11H0171-02
Date Collected	6/30/2011	6/30/2011	6/30/2011	6/30/2011	6/30/2011	8/3/2011	8/3/2011	8/3/2011
Prep Method	EPA 3540C	EPA 3540C	EPA 3540C	EPA 3540C	EPA 3540C	EPA 3540C	EPA 3540C	EPA 3540C
Analytical Method	EPA 8082	EPA 8082	EPA 8082	EPA 8082	EPA 8082	EPA 8082	EPA 8082	EPA 8082
Compound	Concentration (mg/kg (ppm))	Concentration (mg/kg (ppm))	Concentration (mg/kg (ppm))	Concentration (mg/kg (ppm))	Concentration (mg/kg (ppm))	Concentration (mg/kg (ppm))	Concentration (mg/kg (ppm))	Concentration (mg/kg (ppm))
Aroclor-1016	N.D. (0.99)	N.D. (6,900)	N.D. (3,900)	N.D. (6,900)	N.D. (0.87)	N.D. (2,000)	N.D. (0.10)	N.D. (1.9)
Aroclor-1221	N.D. (0.99)	N.D. (6,900)	N.D. (3,900)	N.D. (6,900)	N.D. (0.87)	N.D. (2,000)	N.D. (0.10)	N.D. (1.9)
Aroclor-1232	N.D. (0.99)	N.D. (6,900)	N.D. (3,900)	N.D. (6,900)	N.D. (0.87)	N.D. (2,000)	N.D. (0.10)	N.D. (1.9)
Aroclor-1242	N.D. (0.99)	N.D. (6,900)	N.D. (3,900)	N.D. (6,900)	N.D. (0.87)	N.D. (2,000)	N.D. (0.10)	20
Aroclor-1248	N.D. (0.99)	N.D. (6,900)	N.D. (3,900)	N.D. (6,900)	N.D. (0.87)	7,600	N.D. (0.10)	N.D. (1.9)
Aroclor-1254	3.9	97,000	60,000	110,000	2.2	28,000	N.D. (0.10)	10
Aroclor-1260	N.D. (0.99)	N.D. (6,900)	N.D. (3,900)	N.D. (6,900)	N.D. (0.87)	N.D. (2,000)	N.D. (0.10)	N.D. (1.9)
Aroclor-1262	N.D. (0.99)	N.D. (6,900)	N.D. (3,900)	N.D. (6,900)	N.D. (0.87)	N.D. (2,000)	N.D. (0.10)	N.D. (1.9)
Aroclor-1268	N.D. (0.99)	N.D. (6,900)	N.D. (3,900)	N.D. (6,900)	N.D. (0.87)	N.D. (2,000)	N.D. (0.10)	N.D. (1.9)
TOTAL PCBs	3.9	97,000	60,000	110,000	2.2	35,600	N.D. (0.10)	30
Surrogates:								
Compound	% Recovery	% Recovery	% Recovery	% Recovery	% Recovery	% Recovery	% Recovery	% Recovery
DCBP [1]	95.1 (30-150)	* (30-150)	* (30-150)	* (30-150)	97.7 (30-150)	* (30-150)	93.0 (30-150)	97.4 (30-150)
DCBP [2]	96.9 (30-150)	* (30-150)	* (30-150)	* (30-150)	98.0 (30-150)	* (30-150)	98.2 (30-150)	102 (30-150)
TCMX [1]	93.0 (30-150)	* (30-150)	* (30-150)	* (30-150)	88.8 (30-150)	* (30-150)	102 (30-150)	91.8 (30-150)
TCMX [2]	102 (30-150)	* (30-150)	* (30-150)	* (30-150)	104 (30-150)	* (30-150)	103 (30-150)	107 (30-150)

Notes:
ND = Not detected above noted laboratory detection limit.
mg/kg (ppm) = milligram per kilogram (parts per million).
* = Laboratory QC result is outside of established limits noted.

Table 1
PCB Building Material Survey Data
Harvard University
168 Western Avenue
Allston, Massachusetts

Sample No.	Spandrel C	Spandrel Interior-9"-A	Spandrel Interior-18"-A	Column A	Column B	Column C	Column D	Eave A
Material	Exterior Concrete at Spandrel	Interior Concrete at Spandrel	Interior Concrete at Spandrel	Exterior Concrete at Column	Exterior Concrete at Column	Exterior Concrete at Column	Exterior Concrete at Column	Exterior Concrete at Eave
Location	Adjacent to Showroom, North Façade	9" from Caulk Joint, Garage	18" from Caulk Joint, Showroom	Adjacent to Showroom Window, North Façade	Adjacent to Showroom Window, East Façade	Adjacent to Garage Window, North Façade	Adjacent to Offices, West Façade	Adjacent to Showroom Window, West Façade
Charateristics	Concrete	Concrete	Concrete	Concrete	Concrete	Concrete	Concrete	Concrete
Adjacent Materials	Concrete and Window Caulking	Concrete	Concrete	Concrete and Window Caulking	Concrete and Window Caulking	Concrete and Window Caulking	Concrete	Concrete and Window Caulking
Lab Sample ID	11H0171-03	11H1246-09	11H1246-10	11H0171-07	11H0171-08	11H0171-09	11H1246-13	11H0171-04
Date Collected	8/3/2011	8/30/2011	8/30/2011	8/3/2011	8/3/2011	8/3/2011	8/30/2011	8/3/2011
Prep Method	EPA 3540C	EPA 3540C	EPA 3540C	EPA 3540C	EPA 3540C	EPA 3540C	EPA 3540C	EPA 3540C
Analytical Method	EPA 8082	EPA 8082	EPA 8082	EPA 8082	EPA 8082	EPA 8082	EPA 8082	EPA 8082
Compound	Concentration (mg/kg (ppm))	Concentration (mg/kg (ppm))	Concentration (mg/kg (ppm))	Concentration (mg/kg (ppm))	Concentration (mg/kg (ppm))	Concentration (mg/kg (ppm))	Concentration (mg/kg (ppm))	Concentration (mg/kg (ppm))
Aroclor-1016	N.D. (1.9)	N.D. (0.50)	N.D. (0.50)	N.D. (9.1)	N.D. (2.0)	N.D. (0.43)	N.D. (0.087)	N.D. (0.10)
Aroclor-1221	N.D. (1.9)	N.D. (0.50)	N.D. (0.50)	N.D. (9.1)	N.D. (2.0)	N.D. (0.43)	N.D. (0.087)	N.D. (0.10)
Aroclor-1232	N.D. (1.9)	N.D. (0.50)	N.D. (0.50)	N.D. (9.1)	N.D. (2.0)	N.D. (0.43)	N.D. (0.087)	N.D. (0.10)
Aroclor-1242	4.1	N.D. (0.50)	N.D. (0.50)	N.D. (9.1)	N.D. (2.0)	N.D. (0.43)	N.D. (0.087)	0.78
Aroclor-1248	N.D. (1.9)	N.D. (0.50)	N.D. (0.50)	N.D. (9.1)	N.D. (2.0)	N.D. (0.43)	N.D. (0.087)	N.D. (0.10)
Aroclor-1254	8.4	2.1	2.2	40	5.2	0.91	N.D. (0.087)	0.27
Aroclor-1260	N.D. (1.9)	N.D. (0.50)	N.D. (0.50)	N.D. (9.1)	N.D. (2.0)	N.D. (0.43)	N.D. (0.087)	N.D. (0.10)
Aroclor-1262	N.D. (1.9)	N.D. (0.50)	N.D. (0.50)	N.D. (9.1)	N.D. (2.0)	N.D. (0.43)	N.D. (0.087)	N.D. (0.10)
Aroclor-1268	N.D. (1.9)	N.D. (0.50)	N.D. (0.50)	N.D. (9.1)	N.D. (2.0)	N.D. (0.43)	N.D. (0.087)	N.D. (0.10)
TOTAL PCBs	12.5	2.1	2.2	40	5.2	0.91	N.D. (0.087)	1.05
Surrogates:								
Compound	% Recovery	% Recovery	% Recovery	% Recovery	% Recovery	% Recovery	% Recovery	% Recovery
DCBP [1]	79.0 (30-150)	98.3 (30-150)	107 (30-150)	* (30-150)	112 (30-150)	101 (30-150)	93.2 (30-150)	79.0 (30-150)
DCBP [2]	87.6 (30-150)	105 (30-150)	114 (30-150)	* (30-150)	102 (30-150)	102 (30-150)	105 (30-150)	84.1 (30-150)
TCMX [1]	88.1 (30-150)	92.0 (30-150)	98.1 (30-150)	* (30-150)	71.2 (30-150)	97.5 (30-150)	87.5 (30-150)	80.0 (30-150)
TCMX [2]	98.3 (30-150)	96.4 (30-150)	105 (30-150)	* (30-150)	83.9 (30-150)	108 (30-150)	86.4 (30-150)	82.3 (30-150)

Notes:
ND = Not detected above noted laboratory detection limit.
mg/kg (ppm) = milligram per kilogram (parts per million).
* = Laboratory QC result is outside of established limits noted.

Table 1
PCB Building Material Survey Data
Harvard University
168 Western Avenue
Allston, Massachusetts

Sample No.	Eave B	Ceiling East-6"	Ceiling East-12"	Ceiling West-6"	Ceiling West-12"	Base A	Base A-Vertical-1.5"-A	Base A-Vertical-1.5"-B
Material	Exterior Concrete at Eave	Interior Concrete at Ceiling	Interior Concrete at Ceiling	Interior Concrete at Ceiling	Interior Concrete at Ceiling	Exterior Concrete at Base	Exterior Concrete at Base	Exterior Concrete at Base
Location	Adjacent to Showroom Window, East Façade	rom Caulk Joint, Showroom/Eastern Por	from Caulk Joint, Showroom/Eastern Por	rom Caulk Joint, Showroom/Western Po	from Caulk Joint, Showroom/Western Po	Adjacent to Showroom Window, North Façade	1.5" from Showroom Window, North Façade	1.5" from Showroom Window, West Façade
Charateristics	Concrete	Concrete	Concrete	Concrete	Concrete	Concrete	Concrete	Concrete
Adjacent Materials	Concrete and Window Caulking	Concrete	Concrete	Concrete	Concrete	Concrete and Window Caulking	Concrete and Gravel	Concrete and Gravel
Lab Sample ID	11H0171-05	11H1246-11	11I0677-03	11H1246-12	11I0677-04	11H0171-06	11H1246-01	11H1246-02
Date Collected	8/3/2011	8/30/2011	8/30/2011	8/30/2011	8/30/2011	8/3/2011	8/30/2011	8/30/2011
Prep Method	EPA 3540C	EPA 3540C	EPA 3540C	EPA 3540C	EPA 3540C	EPA 3540C	EPA 3540C	EPA 3540C
Analytical Method	EPA 8082	EPA 8082	EPA 8082	EPA 8082	EPA 8082	EPA 8082	EPA 8082	EPA 8082
Compound	Concentration (mg/kg (ppm))	Concentration (mg/kg (ppm))	Concentration (mg/kg (ppm))	Concentration (mg/kg (ppm))	Concentration (mg/kg (ppm))	Concentration (mg/kg (ppm))	Concentration (mg/kg (ppm))	Concentration (mg/kg (ppm))
Aroclor-1016	N.D. (1.9)	N.D. (0.48)	N.D. (0.095)	N.D. (0.91)	N.D. (2.0)	N.D. (4.0)	N.D. (0.50)	N.D. (0.43)
Aroclor-1221	N.D. (1.9)	N.D. (0.48)	N.D. (0.095)	N.D. (0.91)	N.D. (2.0)	N.D. (4.0)	N.D. (0.50)	N.D. (0.43)
Aroclor-1232	N.D. (1.9)	N.D. (0.48)	N.D. (0.095)	N.D. (0.91)	N.D. (2.0)	N.D. (4.0)	N.D. (0.50)	N.D. (0.43)
Aroclor-1242	N.D. (1.9)	N.D. (0.48)	N.D. (0.095)	N.D. (0.91)	N.D. (2.0)	12	N.D. (0.50)	N.D. (0.43)
Aroclor-1248	N.D. (1.9)	N.D. (0.48)	N.D. (0.095)	N.D. (0.91)	N.D. (2.0)	N.D. (4.0)	N.D. (0.50)	N.D. (0.43)
Aroclor-1254	8.1	3.2	0.23	4	4.7	33	3	4.4
Aroclor-1260	N.D. (1.9)	N.D. (0.48)	N.D. (0.095)	N.D. (0.91)	N.D. (2.0)	N.D. (4.0)	N.D. (0.50)	N.D. (0.43)
Aroclor-1262	N.D. (1.9)	N.D. (0.48)	N.D. (0.095)	N.D. (0.91)	N.D. (2.0)	N.D. (4.0)	N.D. (0.50)	N.D. (0.43)
Aroclor-1268	N.D. (1.9)	N.D. (0.48)	N.D. (0.095)	N.D. (0.91)	N.D. (2.0)	N.D. (4.0)	N.D. (0.50)	N.D. (0.43)
TOTAL PCBs	8.1	3.2	0.23	4	4.7	45	3	4.4
Surrogates:								
Compound	% Recovery	% Recovery	% Recovery	% Recovery	% Recovery	% Recovery	% Recovery	% Recovery
DCBP [1]	110 (30-150)	102 (30-150)	94.1 (30-150)	75.7 (30-150)	119 (30-150)	* (30-150)	99.0 (30-150)	104 (30-150)
DCBP [2]	115 (30-150)	110 (30-150)	86.3 (30-150)	83.0 (30-150)	117 (30-150)	* (30-150)	109 (30-150)	115 (30-150)
TCMX [1]	105 (30-150)	99.8 (30-150)	98.9 (30-150)	93.3 (30-150)	114 (30-150)	* (30-150)	91.0 (30-150)	94.5 (30-150)
TCMX [2]	124 (30-150)	103 (30-150)	85.9 (30-150)	102 (30-150)	109 (30-150)	* (30-150)	95.2 (30-150)	97.8 (30-150)

Notes:
ND = Not detected above noted laboratory detection limit.
mg/kg (ppm) = milligram per kilogram (parts per million).
* = Laboratory QC result is outside of established limits noted.

Table 1
PCB Building Material Survey Data
Harvard University
168 Western Avenue
Allston, Massachusetts

Sample No.	Base A-Interior-Tile-6''-B	Base A-Interior-Grout-6''-B	Base A-Interior-Tile-6''-A	Base A-Interior-Grout-6''-A	Base B	Base B-Vertical-1.5''-A	Base B-Vertical-2'-A
Material	Interior Tile at Base	Interior Grout at Base	Interior Tile at Base	Interior Grout at Base	Exterior Concrete at Base	Exterior Concrete at Base	Exterior Asphalt at Base
Location	6" from Showroom Window, North Façade	6" from Showroom Window, North Façade	6" from Showroom Window, West Façade	6" from Showroom Window, West Façade	Adjacent to Garage Window, North Façade	1.5" from Garage Window, North Façade	2' North of Garage Window, North Façade
Charateristics	Tile	Grout	Tile	Grout	Concrete	Concrete	Concrete
Adjacent Materials	Grout	Tile	Grout	Tile	Concrete and Window Caulking	Concrete and Asphalt	Concrete and Asphalt
Lab Sample ID	11J0387-05	11J0387-06	11J0387-07	11J0387-08	11H0171-10	11H1246-05	11I0826-01
Date Collected	10/11/2011	10/11/2011	10/11/2011	10/11/2011	8/3/2011	8/30/2011	9/21/2011
Prep Method	EPA 3540C	EPA 3540C	EPA 3540C	EPA 3540C	EPA 3540C	EPA 3540C	EPA 3540C
Analytical Method	EPA 8082	EPA 8082	EPA 8082	EPA 8082	EPA 8082	EPA 8082	EPA 8082
Compound	Concentration (mg/kg (ppm))	Concentration (mg/kg (ppm))	Concentration (mg/kg (ppm))	Concentration (mg/kg (ppm))	Concentration (mg/kg (ppm))	Concentration (mg/kg (ppm))	Concentration (mg/kg (ppm))
Aroclor-1016	N.D. (0.095)	N.D. (0.091)	N.D. (0.10)	N.D. (0.10)	N.D. (2.0)	N.D. (0.95)	N.D. (0.93)
Aroclor-1221	N.D. (0.095)	N.D. (0.091)	N.D. (0.10)	N.D. (0.10)	N.D. (2.0)	N.D. (0.95)	N.D. (0.93)
Aroclor-1232	N.D. (0.095)	N.D. (0.091)	N.D. (0.10)	N.D. (0.10)	N.D. (2.0)	N.D. (0.95)	N.D. (0.93)
Aroclor-1242	N.D. (0.095)	N.D. (0.091)	N.D. (0.10)	N.D. (0.10)	4	N.D. (0.95)	N.D. (0.93)
Aroclor-1248	N.D. (0.095)	0.91	N.D. (0.10)	N.D. (0.10)	N.D. (2.0)	N.D. (0.95)	N.D. (0.93)
Aroclor-1254	N.D. (0.095)	N.D. (0.091)	N.D. (0.10)	0.16	21	5.9	N.D. (0.93)
Aroclor-1260	N.D. (0.095)	N.D. (0.091)	N.D. (0.10)	N.D. (0.10)	N.D. (2.0)	N.D. (0.95)	N.D. (0.93)
Aroclor-1262	N.D. (0.095)	N.D. (0.091)	N.D. (0.10)	N.D. (0.10)	N.D. (2.0)	N.D. (0.95)	N.D. (0.93)
Aroclor-1268	N.D. (0.095)	N.D. (0.091)	N.D. (0.10)	N.D. (0.10)	N.D. (2.0)	N.D. (0.95)	N.D. (0.93)
TOTAL PCBs	N.D. (0.095)	0.91	N.D. (0.10)	0.16	25	5.9	N.D. (0.93)
Surrogates:							
Compound	% Recovery	% Recovery	% Recovery	% Recovery	% Recovery	% Recovery	% Recovery
DCBP [1]	86.9 (30-150)	85.2 (30-150)	83.1 (30-150)	53.7 (30-150)	102 (30-150)	102 (30-150)	94 (30-150)
DCBP [2]	94.6 (30-150)	93.5 (30-150)	91.4 (30-150)	60.1 (30-150)	113 (30-150)	110 (30-150)	97.9 (30-150)
TCMX [1]	97.3 (30-150)	101 (30-150)	100 (30-150)	70.6 (30-150)	100 (30-150)	95.5 (30-150)	99 (30-150)
TCMX [2]	101 (30-150)	102 (30-150)	103 (30-150)	73.8 (30-150)	116 (30-150)	101 (30-150)	111 (30-150)

Notes:
ND = Not detected above noted laboratory detection limit.
mg/kg (ppm) = milligram per kilogram (parts per million).
* = Laboratory QC result is outside of established limits noted.

Table 1
PCB Building Material Survey Data
Harvard University
168 Western Avenue
Allston, Massachusetts

Sample No.	Base B-Vertical-1.5''-B	Base B-Vertical-2''-B	Base B-Interior-6''-A	Base B-Interior-6''-B	Base B-Interior-12''-B	Base B-Interior-18''-B	Base B-Interior-36''-B
Material	Exterior Concrete at Base	Exterior Asphalt at Base	Interior Concrete at Base	Interior Concrete at Base	Interior Concrete at Base	Interior Concrete at Base	Interior Concrete at Base
Location	1.5" from Garage Window, North Façade	2' North of Garage Window, North Façade	6" South of Garage Window, North Façade	6" South of Garage Window, North Façade	12" South of Garage Window, North Façade	18" South of Garage Window, North Façade	36" South of Garage Window, North Façade
Charateristics	Concrete	Concrete	Concrete	Concrete	Concrete	Concrete	Concrete
Adjacent Materials	Concrete and Asphalt	Concrete and Asphalt	Concrete	Concrete	Concrete	Concrete	Concrete
Lab Sample ID	11H1246-06	11I0826-02	11H1246-03	11H1246-04	11I0677-05	11J0387-01	11J0973-16
Date Collected	8/30/2011	9/21/2011	8/30/2011	8/30/2011	8/30/2011	10/11/2011	10/25/2011
Prep Method	EPA 3540C	EPA 3540C	EPA 3540C	EPA 3540C	EPA 3540C	EPA 3540C	EPA 3540C
Analytical Method	EPA 8082	EPA 8082	EPA 8082	EPA 8082	EPA 8082	EPA 8082	EPA 8082
Compound	Concentration (mg/kg (ppm))	Concentration (mg/kg (ppm))	Concentration (mg/kg (ppm))	Concentration (mg/kg (ppm))	Concentration (mg/kg (ppm))	Concentration (mg/kg (ppm))	Concentration (mg/kg (ppm))
Aroclor-1016	N.D. (0.45)	N.D. (0.96)	N.D. (0.10)	N.D. (1.0)	N.D. (10)	N.D. (0.95)	N.D. (0.45)
Aroclor-1221	N.D. (0.45)	N.D. (0.96)	N.D. (0.10)	N.D. (1.0)	N.D. (10)	N.D. (0.95)	N.D. (0.45)
Aroclor-1232	N.D. (0.45)	N.D. (0.96)	N.D. (0.10)	N.D. (1.0)	N.D. (10)	N.D. (0.95)	N.D. (0.45)
Aroclor-1242	N.D. (0.45)	N.D. (0.96)	N.D. (0.10)	N.D. (1.0)	N.D. (10)	N.D. (0.95)	N.D. (0.45)
Aroclor-1248	N.D. (0.45)	N.D. (0.96)	N.D. (0.10)	N.D. (1.0)	N.D. (10)	N.D. (0.95)	N.D. (0.45)
Aroclor-1254	3.5	N.D. (0.96)	0.18	11	13	7.9	2.3
Aroclor-1260	N.D. (0.45)	N.D. (0.96)	N.D. (0.10)	N.D. (1.0)	N.D. (10)	N.D. (0.95)	N.D. (0.45)
Aroclor-1262	N.D. (0.45)	N.D. (0.96)	N.D. (0.10)	N.D. (1.0)	N.D. (10)	N.D. (0.95)	N.D. (0.45)
Aroclor-1268	N.D. (0.45)	N.D. (0.96)	N.D. (0.10)	N.D. (1.0)	N.D. (10)	N.D. (0.95)	N.D. (0.45)
TOTAL PCBs	3.5	N.D. (0.96)	0.18	11	13	7.9	2.3
Surrogates:							
Compound	% Recovery	% Recovery	% Recovery	% Recovery	% Recovery	% Recovery	% Recovery
DCBP [1]	101 (30-150)	101 (30-150)	77.9 (30-150)	94.2 (30-150)	* (30-150)	92.7 (30-150)	97.6 (30-150)
DCBP [2]	113 (30-150)	107 (30-150)	84.3 (30-150)	101 (30-150)	* (30-150)	107 (30-150)	90.7 (30-150)
TCMX [1]	98.4 (30-150)	110 (30-150)	81.6 (30-150)	95.2 (30-150)	* (30-150)	105 (30-150)	111 (30-150)
TCMX [2]	102 (30-150)	124 (30-150)	82.9 (30-150)	102 (30-150)	* (30-150)	116 (30-150)	113 (30-150)

Notes:
ND = Not detected above noted laboratory detection limit.
mg/kg (ppm) = milligram per kilogram (parts per million).
* = Laboratory QC result is outside of established limits noted.

Table 1
PCB Building Material Survey Data
Harvard University
168 Western Avenue
Allston, Massachusetts

Sample No.	Base B-Interior-5'-B	Base B-Interior-7'-B	Base B-Interior-6''-C	Base B-Interior-36''-D	Base B-Interior-5'-D	Base B-Interior-36''-E	Base C
Material	Interior Concrete at Base	Interior Concrete at Base	Interior Concrete at Base	Interior Concrete at Base	Interior Concrete at Base	Interior Concrete at Base	Exterior Concrete at Base
Location	5' South of Garage Window, North Façade	7' South of Garage Window, North Façade	6" South of Garage Window, North Façade	36" South of Garage Window, North Façade	5' South of Garage Window, North Façade	36" South of Garage Window, North Façade	Adjacent to Showroom Window, East Façade
Charateristics	Concrete	Concrete	Concrete	Concrete	Concrete	Concrete	Concrete
Adjacent Materials	Concrete	Concrete	Concrete	Concrete	Concrete	Concrete	Concrete and Window Caulking
Lab Sample ID	11K0333-01	11K0549-01	11J0387-02	11J0973-17	11K0549-02	11J0973-19	11H0171-11
Date Collected	11/9/2011	11/9/2011	10/11/2011	10/25/2011	11/9/2011	10/25/2011	8/3/2011
Prep Method	EPA 3540C	EPA 3540C	EPA 3540C	EPA 3540C	EPA 3540C	EPA 3540C	EPA 3540C
Analytical Method	EPA 8082	EPA 8082	EPA 8082	EPA 8082	EPA 8082	EPA 8082	EPA 8082
Compound	Concentration (mg/kg (ppm))	Concentration (mg/kg (ppm))	Concentration (mg/kg (ppm))	Concentration (mg/kg (ppm))	Concentration (mg/kg (ppm))	Concentration (mg/kg (ppm))	Concentration (mg/kg (ppm))
Aroclor-1016	N.D. (0.48)	N.D. (0.091)	N.D. (0.10)	N.D. (0.10)	N.D. (0.091)	N.D. (0.095)	N.D. (1.9)
Aroclor-1221	N.D. (0.48)	N.D. (0.091)	N.D. (0.10)	N.D. (0.10)	N.D. (0.091)	N.D. (0.095)	N.D. (1.9)
Aroclor-1232	N.D. (0.48)	N.D. (0.091)	N.D. (0.10)	N.D. (0.10)	N.D. (0.091)	N.D. (0.095)	N.D. (1.9)
Aroclor-1242	N.D. (0.48)	N.D. (0.091)	N.D. (0.10)	N.D. (0.10)	N.D. (0.091)	N.D. (0.095)	N.D. (1.9)
Aroclor-1248	N.D. (0.48)	N.D. (0.091)	0.23	N.D. (0.10)	N.D. (0.091)	N.D. (0.095)	N.D. (1.9)
Aroclor-1254	3.7	0.78	0.75	1	0.99	0.61	11
Aroclor-1260	N.D. (0.48)	N.D. (0.091)	N.D. (0.10)	N.D. (0.10)	N.D. (0.091)	N.D. (0.095)	N.D. (1.9)
Aroclor-1262	N.D. (0.48)	N.D. (0.091)	N.D. (0.10)	N.D. (0.10)	N.D. (0.091)	N.D. (0.095)	N.D. (1.9)
Aroclor-1268	N.D. (0.48)	N.D. (0.091)	N.D. (0.10)	N.D. (0.10)	N.D. (0.091)	N.D. (0.095)	N.D. (1.9)
TOTAL PCBs	3.7	0.78	0.98	1.0	0.99	0.61	11
Surrogates:							
Compound	% Recovery	% Recovery	% Recovery	% Recovery	% Recovery	% Recovery	% Recovery
DCBP [1]	82.3 (30-150)	72.8 (30-150)	95.1 (30-140)	91.7 (30-150)	71.1 (30-150)	100 (30-150)	93.2 (30-150)
DCBP [2]	88.4 (30-150)	76.2 (30-150)	102 (30-150)	83.5 (30-150)	74.3 (30-150)	91.8 (30-150)	109 (30-150)
TCMX [1]	89.7 (30-150)	70.4 (30-150)	99.0 (30-150)	97.1 (30-150)	68.8 (30-150)	109 (30-150)	97.1 (30-150)
TCMX [2]	88.7 (30-150)	69.5 (30-150)	110 (30-150)	92.4 (30-150)	65.1 (30-150)	104 (30-150)	114 (30-150)

Notes:
ND = Not detected above noted laboratory detection limit.
mg/kg (ppm) = milligram per kilogram (parts per million).
* = Laboratory QC result is outside of established limits noted.

Table 1
PCB Building Material Survey Data
Harvard University
168 Western Avenue
Allston, Massachusetts

Sample No.	Base C-Horizontal-3"-A	Base C-Horizontal Edge-A	Base C-Horizontal-3"-B	Base C-Horizontal Edge-B	Base C-Interior-Tile-6"-A	Base C-Interior-Grout-6"-A	Showroom Carpet/Mastic
Material	Exterior Concrete at Base	Exterior Concrete at Base	Exterior Concrete at Base	Exterior Concrete at Base	Interior Tile at Base	Interior Grout at Base	Interior Carpet/Mastic at Base
Location	3" East of Showroom Window, East Façade	3' East of Showroom Window, East Façade	3" East of Showroom Window, East Façade	3' East of Showroom Window, East Façade	6" West of Showroom Window, East Façade	6" West of Showroom Window, East Façade	Middle of Showroom
Charateristics	Concrete	Concrete	Concrete	Concrete	Tile	Grout	Carpet/Mastic
Adjacent Materials	Concrete	Concrete	Concrete	Concrete	Grout	Tile	Tile/Grout
Lab Sample ID	11H1246-04	11H0826-03	11H1246-08	11H0826-04	11J0387-03	11J0387-04	11J0387-09
Date Collected	8/30/2011	9/21/2011	8/30/2011	9/21/2011	10/11/2011	10/11/2011	10/11/2011
Prep Method	EPA 3540C	EPA 3540C	EPA 3540C	EPA 3540C	EPA 3540C	EPA 3540C	EPA 3540C
Analytical Method	EPA 8082	EPA 8082	EPA 8082	EPA 8082	EPA 8082	EPA 8082	EPA 8082
Compound	Concentration (mg/kg (ppm))	Concentration (mg/kg (ppm))	Concentration (mg/kg (ppm))	Concentration (mg/kg (ppm))	Concentration (mg/kg (ppm))	Concentration (mg/kg (ppm))	Concentration (mg/kg (ppm))
Aroclor-1016	N.D. (0.43)	N.D. (0.87)	N.D. (0.10)	N.D. (0.88)	N.D. (0.095)	N.D. (0.10)	N.D. (0.10)
Aroclor-1221	N.D. (0.43)	N.D. (0.87)	N.D. (0.10)	N.D. (0.88)	N.D. (0.095)	N.D. (0.10)	N.D. (0.10)
Aroclor-1232	N.D. (0.43)	N.D. (0.87)	N.D. (0.10)	N.D. (0.88)	N.D. (0.095)	N.D. (0.10)	N.D. (0.10)
Aroclor-1242	N.D. (0.43)	N.D. (0.87)	N.D. (0.10)	N.D. (0.88)	N.D. (0.095)	N.D. (0.10)	N.D. (0.10)
Aroclor-1248	N.D. (0.43)	N.D. (0.87)	N.D. (0.10)	N.D. (0.88)	0.46	0.15	0.65
Aroclor-1254	1.7	N.D. (0.87)	0.5	N.D. (0.88)	N.D. (0.095)	N.D. (0.10)	0.53
Aroclor-1260	N.D. (0.43)	N.D. (0.87)	N.D. (0.10)	N.D. (0.88)	N.D. (0.095)	N.D. (0.10)	N.D. (0.10)
Aroclor-1262	N.D. (0.43)	N.D. (0.87)	N.D. (0.10)	N.D. (0.88)	N.D. (0.095)	N.D. (0.10)	N.D. (0.10)
Aroclor-1268	N.D. (0.43)	N.D. (0.87)	N.D. (0.10)	N.D. (0.88)	N.D. (0.095)	N.D. (0.10)	N.D. (0.10)
TOTAL PCBs	1.7	N.D. (0.87)	0.5	N.D. (0.88)	0.46	0.15	1.18
Surrogates:							
Compound	% Recovery	% Recovery	% Recovery	% Recovery	% Recovery	% Recovery	% Recovery
DCBP [1]	97.7 (30-150)	91.4 (30-150)	102 (30-150)	94 (30-150)	78.8 (30-150)	80.9 (30-150)	80.7 (30-150)
DCBP [2]	107 (30-150)	96.7 (30-150)	114 (30-150)	99.1 (30-150)	85.4 (30-150)	88.2 (30-150)	87.4 (30-150)
TCMX [1]	88.6 (30-150)	96.9 (30-150)	94.8 (30-150)	98.4 (30-150)	96.9 (30-150)	96.1 (30-150)	95.4 (30-150)
TCMX [2]	91.6 (30-150)	110 (30-150)	93.9 (30-150)	112 (30-150)	98.3 (30-150)	100 (30-150)	96.6 (30-150)

Notes:
ND = Not detected above noted laboratory detection limit.
mg/kg (ppm) = milligram per kilogram (parts per million).
* = Laboratory QC result is outside of established limits noted.

Table 1
PCB Building Material Survey Data
Harvard University
168 Western Avenue
Allston, Massachusetts

Sample No.	Showroom East Carpet/Mastic	Showroom West Carpet/Mastic	Garage East Carpet/Mastic	Garage West Carpet/Mastic	Garage Carpet/Mastic
Material	Interior Carpet/Mastic at Base	Interior Carpet/Mastic at Base	Interior Carpet/Mastic at Base	Interior Carpet/Mastic at Base	Interior Carpet/Mastic at Base
Location	Eastern portion of Showroom	Western portion of Showroom	Eastern portion of Garage	Western portion of Showroom	Middle of Garage
Charateristics	Carpet/Mastic	Carpet/Mastic	Carpet/Mastic	Carpet/Mastic	Carpet/Mastic
Adjacent Materials	Tile/Grout	Tile/Grout	Concrete	Concrete	Concrete
Lab Sample ID	11K0199-01	11K0199-02	11K0199-03	11K0199-04	11J0387-10
Date Collected	11/4/2011	11/4/2011	11/4/2011	11/4/2011	10/11/2011
Prep Method	EPA 3540C	EPA 3540C	EPA 3540C	EPA 3540C	EPA 3540C
Analytical Method	EPA 8082	EPA 8082	EPA 8082	EPA 8082	EPA 8082
Compound	Concentration (mg/kg (ppm))	Concentration (mg/kg (ppm))	Concentration (mg/kg (ppm))	Concentration (mg/kg (ppm))	Concentration (mg/kg (ppm))
Aroclor-1016	N.D. (0.50)	N.D. (0.50)	N.D. (0.50)	N.D. (0.50)	N.D. (0.50)
Aroclor-1221	N.D. (0.50)	N.D. (0.50)	N.D. (0.50)	N.D. (0.50)	N.D. (0.50)
Aroclor-1232	N.D. (0.50)	N.D. (0.50)	N.D. (0.50)	N.D. (0.50)	N.D. (0.50)
Aroclor-1242	3.7	4.3	1	0.93	N.D. (0.50)
Aroclor-1248	N.D. (0.50)	N.D. (0.50)	N.D. (0.50)	N.D. (0.50)	3.6
Aroclor-1254	3.3	3.5	0.34	0.26	1.4
Aroclor-1260	N.D. (0.50)	N.D. (0.50)	N.D. (0.50)	N.D. (0.50)	N.D. (0.50)
Aroclor-1262	N.D. (0.50)	N.D. (0.50)	N.D. (0.50)	N.D. (0.50)	N.D. (0.50)
Aroclor-1268	N.D. (0.50)	N.D. (0.50)	N.D. (0.50)	N.D. (0.50)	N.D. (0.50)
TOTAL PCBs	7	7.8	1.34	1.19	5
Surrogates:					
Compound	% Recovery	% Recovery	% Recovery	% Recovery	% Recovery
DCBP [1]	98.9 (30-150)	100 (30-150)	112 (30-150)	122 (30-150)	87.0 (30-150)
DCBP [2]	112 (30-150)	114 (30-150)	112 (30-150)	121 (30-150)	98.9 (30-150)
TCMX [1]	101 (30-150)	102 (30-150)	107 (30-150)	117 (30-150)	96.5 (30-150)
TCMX [2]	102 (30-150)	104 (30-150)	101 (30-150)	111 (30-150)	110 (30-150)

Notes:
ND = Not detected above noted laboratory detection limit.
mg/kg (ppm) = milligram per kilogram (parts per million).
* = Laboratory QC result is outside of established limits noted.

Table 2
PCB Soil Survey Data
Harvard University
168 Western Avenue
Allston, Massachusetts

Sample No.	S-1A	S-1A-2'	S-1A-3'	S-1A-5'	S-2A	S-2A-2'	S-3A	S-3A-2'
Material	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Depth	5"	2'	3'	5'	5"	2'	5"	2'
Distance from Building	6"	6"	6"	6"	6"	6"	6"	6"
Sample Type	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab
Sample Purpose	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment
Location	Showroom, West Fadace	Showroom, West Fadace	Showroom, West Fadace	Showroom, West Fadace	Showroom, West Fadace	Showroom, West Fadace	Showroom, West Fadace	Showroom, West Fadace
Lab Sample ID	11J0554-01	11J0973-01	11J0970-01	11K0333-02	11J0554-02	11J0973-02	11J0554-03	11K0199-05
Date Collected	10/14/2011	10/25/2011	10/25/2011	11/9/2011	10/14/2011	10/25/2011	10/14/2011	10/25/2011
Prep Method	EPA 3540C	EPA 3540C	EPA 3540C	EPA 3540C	EPA 3540C	EPA 3540C	EPA 3540C	EPA 3540C
Analytical Method	EPA 8082	EPA 8082	EPA 8082	EPA 8082	EPA 8082	EPA 8082	EPA 8082	EPA 8082
Compound	Concentration (mg/kg (ppm))	Concentration (mg/kg (ppm))	Concentration (mg/kg (ppm))	Concentration (mg/kg (ppm))	Concentration (mg/kg (ppm))	Concentration (mg/kg (ppm))	Concentration (mg/kg (ppm))	Concentration (mg/kg (ppm))
Aroclor-1016	N.D. (4.8)	N.D. (0.21)	N.D. (0.42)	N.D. (0.11)	N.D. (13)	N.D. (0.10)	N.D. (2.9)	N.D. (0.11)
Aroclor-1221	N.D. (4.8)	N.D. (0.21)	N.D. (0.42)	N.D. (0.11)	N.D. (13)	N.D. (0.10)	N.D. (2.9)	N.D. (0.11)
Aroclor-1232	N.D. (4.8)	N.D. (0.21)	N.D. (0.42)	N.D. (0.11)	N.D. (13)	N.D. (0.10)	N.D. (2.9)	N.D. (0.11)
Aroclor-1242	N.D. (4.8)	N.D. (0.21)	N.D. (0.42)	N.D. (0.11)	N.D. (13)	N.D. (0.10)	N.D. (2.9)	N.D. (0.11)
Aroclor-1248	N.D. (4.8)	N.D. (0.21)	N.D. (0.42)	N.D. (0.11)	N.D. (13)	N.D. (0.10)	N.D. (2.9)	N.D. (0.11)
Aroclor-1254	36	1.7	2.6	0.2	76	0.35	17	N.D. (0.11)
Aroclor-1260	N.D. (4.8)	N.D. (0.21)	N.D. (0.42)	N.D. (0.11)	N.D. (13)	N.D. (0.10)	N.D. (2.9)	N.D. (0.11)
Aroclor-1262	N.D. (4.8)	N.D. (0.21)	N.D. (0.42)	N.D. (0.11)	N.D. (13)	N.D. (0.10)	N.D. (2.9)	N.D. (0.11)
Aroclor-1268	N.D. (4.8)	N.D. (0.21)	N.D. (0.42)	N.D. (0.11)	N.D. (13)	N.D. (0.10)	N.D. (2.9)	N.D. (0.11)
TOTAL PCBs	36	1.7	2.6	0.2	76	0.35	17	N.D. (0.11)
Surrogates:								
Compound	% Recovery	% Recovery	% Recovery	% Recovery	% Recovery	% Recovery	% Recovery	% Recovery
DCBP [1]	* (30-150)	94.6 (30-150)	99.9 (30-150)	85.8 (30-150)	* (30-150)	87.4 (30-150)	* (30-150)	107 (30-150)
DCBP [2]	* (30-150)	91.1 (30-150)	98.4 (30-150)	88.6 (30-150)	* (30-150)	86.1 (30-150)	* (30-150)	119 (30-150)
TCMX [1]	* (30-150)	113 (30-150)	118 (30-150)	90.8 (30-150)	* (30-150)	111 (30-150)	* (30-150)	92.7 (30-150)
TCMX [2]	* (30-150)	118 (30-150)	120 (30-150)	94.3 (30-150)	* (30-150)	111 (30-150)	* (30-150)	93.0 (30-150)

Notes:
ND = Not detected above noted laboratory detection limit.
mg/kg (ppm) = milligram per kilogram (parts per million).
* = Laboratory QC result is outside of established limits noted.

Table 2
PCB Soil Survey Data
Harvard University
168 Western Avenue
Allston, Massachusetts

Sample No.	S-4A	S-5A	S-6A	S-7A	S-8A	S-9C	S-10C	S-11C
Material	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Depth	5"	5"	5"	5"	5"	8"	8"	8"
Distance from Building	6"	6"	6"	6"	6"	6" and 18"	6" and 18"	6" and 18"
Sample Type	Grab	Grab	Grab	Grab	Grab	Composite	Composite	Composite
Sample Purpose	Assessment	Assessment	Assessment	Assessment	Assessment	Confirmation	Confirmation	Confirmation
Location	Showroom, North Fadace	Showroom, North Fadace	Showroom, North Fadace	Showroom, North Fadace	Showroom, North Fadace	Showroom, East Fadace	Showroom, East Fadace	Showroom, East Fadace
Lab Sample ID	11J0554-04	11J0554-05	11J0554-06	11J0554-07	11J0554-08	11J0554-09	11J0554-10	11J0554-11
Date Collected	10/14/2011	10/14/2011	10/14/2011	10/14/2011	10/14/2011	10/14/2011	10/14/2011	10/14/2011
Prep Method	EPA 3540C	EPA 3540C	EPA 3540C	EPA 3540C	EPA 3540C	EPA 3540C	EPA 3540C	EPA 3540C
Analytical Method	EPA 8082	EPA 8082	EPA 8082	EPA 8082	EPA 8082	EPA 8082	EPA 8082	EPA 8082
Compound	Concentration (mg/kg (ppm))	Concentration (mg/kg (ppm))	Concentration (mg/kg (ppm))	Concentration (mg/kg (ppm))	Concentration (mg/kg (ppm))	Concentration (mg/kg (ppm))	Concentration (mg/kg (ppm))	Concentration (mg/kg (ppm))
Aroclor-1016	N.D. (0.10)	N.D. (0.10)	N.D. (0.11)	N.D. (0.11)	N.D. (0.11)	N.D. (0.12)	N.D. (0.11)	N.D. (0.11)
Aroclor-1221	N.D. (0.10)	N.D. (0.10)	N.D. (0.11)	N.D. (0.11)	N.D. (0.11)	N.D. (0.12)	N.D. (0.11)	N.D. (0.11)
Aroclor-1232	N.D. (0.10)	N.D. (0.10)	N.D. (0.11)	N.D. (0.11)	N.D. (0.11)	N.D. (0.12)	N.D. (0.11)	N.D. (0.11)
Aroclor-1242	N.D. (0.10)	N.D. (0.10)	N.D. (0.11)	N.D. (0.11)	N.D. (0.11)	N.D. (0.12)	N.D. (0.11)	N.D. (0.11)
Aroclor-1248	N.D. (0.10)	N.D. (0.10)	N.D. (0.11)	N.D. (0.11)	N.D. (0.11)	N.D. (0.12)	N.D. (0.11)	N.D. (0.11)
Aroclor-1254	0.15	0.19	0.55	0.28	0.58	N.D. (0.12)	N.D. (0.11)	N.D. (0.11)
Aroclor-1260	N.D. (0.10)	N.D. (0.10)	N.D. (0.11)	N.D. (0.11)	N.D. (0.11)	N.D. (0.12)	N.D. (0.11)	N.D. (0.11)
Aroclor-1262	N.D. (0.10)	N.D. (0.10)	N.D. (0.11)	N.D. (0.11)	N.D. (0.11)	N.D. (0.12)	N.D. (0.11)	N.D. (0.11)
Aroclor-1268	N.D. (0.10)	N.D. (0.10)	N.D. (0.11)	N.D. (0.11)	N.D. (0.11)	N.D. (0.12)	N.D. (0.11)	N.D. (0.11)
TOTAL PCBs	0.15	0.19	0.55	0.28	0.58	N.D. (0.12)	N.D. (0.11)	N.D. (0.11)
Surrogates:								
Compound	% Recovery	% Recovery	% Recovery	% Recovery	% Recovery	% Recovery	% Recovery	% Recovery
DCBP [1]	93.4 (30-150)	95.6 (30-150)	95.5 (30-150)	91.3 (30-150)	93.3 (30-150)	92.2 (30-150)	94.3 (30-150)	96.8 (30-150)
DCBP [2]	106 (30-150)	108 (30-150)	109 (30-150)	104 (30-150)	106 (30-150)	105 (30-150)	108 (30-150)	110 (30-150)
TCMX [1]	107 (30-150)	109 (30-150)	111 (30-150)	106 (30-150)	117 (30-150)	104 (30-150)	106 (30-150)	106 (30-150)
TCMX [2]	112 (30-150)	115 (30-150)	118 (30-150)	112 (30-150)	123 (30-150)	108 (30-150)	112 (30-150)	112 (30-150)

Notes:
ND = Not detected above noted laboratory detection limit.
mg/kg (ppm) = milligram per kilogram (parts per million).
* = Laboratory QC result is outside of established limits noted.

Table 2
PCB Soil Survey Data
Harvard University
168 Western Avenue
Allston, Massachusetts

Sample No.	S-12C	S-13C	S-14C	S-15C	S-21	S-21-2'	S-21-3'	S-22
Material	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Depth	8"	8"	8"	8"	5"	2'	3'	5"
Distance from Building	6" and 18"	6" and 18"	6" and 18"	6" and 18"	6"	6"	6"	2'
Sample Type	Composite	Composite	Composite	Composite	Grab	Grab	Grab	Grab
Sample Purpose	Confirmation	Confirmation	Confirmation	Confirmation	Assessment	Assessment	Assessment	Assessment
Location	Showroom, East Fadace	Showroom, East Fadace	Showroom, East Fadace	Showroom, East Fadace	Showroom, West Fadace	Showroom, West Fadace	Showroom, West Fadace	Showroom, West Fadace
Lab Sample ID	11J0554-12	11J0554-13	11J0554-14	11J0554-15	11J0973-03	11J0970-03	11K0199-06	11J0973-04
Date Collected	10/14/2011	10/14/2011	10/14/2011	10/14/2011	10/25/2011	10/25/2011	10/25/2011	10/25/2011
Prep Method	EPA 3540C	EPA 3540C	EPA 3540C	EPA 3540C	EPA 3540C	EPA 3540C	EPA 3540C	EPA 3540C
Analytical Method	EPA 8082	EPA 8082	EPA 8082	EPA 8082	EPA 8082	EPA 8082	EPA 8082	EPA 8082
Compound	Concentration (mg/kg (ppm))	Concentration (mg/kg (ppm))	Concentration (mg/kg (ppm))	Concentration (mg/kg (ppm))	Concentration (mg/kg (ppm))	Concentration (mg/kg (ppm))	Concentration (mg/kg (ppm))	Concentration (mg/kg (ppm))
Aroclor-1016	N.D. (0.11)	N.D. (0.11)	N.D. (0.11)	N.D. (0.10)	N.D. (0.13)	N.D. (7.9)	N.D. (0.11)	N.D. (0.14)
Aroclor-1221	N.D. (0.11)	N.D. (0.11)	N.D. (0.11)	N.D. (0.10)	N.D. (0.13)	N.D. (7.9)	N.D. (0.11)	N.D. (0.14)
Aroclor-1232	N.D. (0.11)	N.D. (0.11)	N.D. (0.11)	N.D. (0.10)	N.D. (0.13)	N.D. (7.9)	N.D. (0.11)	N.D. (0.14)
Aroclor-1242	N.D. (0.11)	N.D. (0.11)	N.D. (0.11)	N.D. (0.10)	N.D. (0.13)	N.D. (7.9)	N.D. (0.11)	N.D. (0.14)
Aroclor-1248	N.D. (0.11)	N.D. (0.11)	N.D. (0.11)	N.D. (0.10)	N.D. (0.13)	N.D. (7.9)	N.D. (0.11)	N.D. (0.14)
Aroclor-1254	N.D. (0.11)	0.84	0.35	N.D. (0.10)	1.5	58	N.D. (0.11)	1.3
Aroclor-1260	N.D. (0.11)	N.D. (0.11)	N.D. (0.11)	N.D. (0.10)	N.D. (0.13)	N.D. (7.9)	N.D. (0.11)	N.D. (0.14)
Aroclor-1262	N.D. (0.11)	N.D. (0.11)	N.D. (0.11)	N.D. (0.10)	N.D. (0.13)	N.D. (7.9)	N.D. (0.11)	N.D. (0.14)
Aroclor-1268	N.D. (0.11)	N.D. (0.11)	N.D. (0.11)	N.D. (0.10)	N.D. (0.13)	N.D. (7.9)	N.D. (0.11)	N.D. (0.14)
TOTAL PCBs	N.D. (0.11)	0.84	0.35	N.D. (0.10)	1.5	58	N.D. (0.11)	1.3
Surrogates:								
Compound	% Recovery	% Recovery	% Recovery	% Recovery	% Recovery	% Recovery	% Recovery	% Recovery
DCBP [1]	79.8 (30-150)	98.5 (30-150)	101 (30-150)	105 (30-150)	74.6 (30-150)	85.3 (30-150)	104 (30-150)	76.8 (30-150)
DCBP [2]	90.8 (30-150)	112 (30-150)	114 (30-150)	117 (30-150)	74.7 (30-150)	86.7 (30-150)	114 (30-150)	77.0 (30-150)
TCMX [1]	111 (30-150)	108 (30-150)	114 (30-150)	111 (30-150)	109 (30-150)	108 (30-150)	94.4 (30-150)	112 (30-150)
TCMX [2]	118 (30-150)	112 (30-150)	119 (30-150)	117 (30-150)	108 (30-150)	110 (30-150)	94.9 (30-150)	112 (30-150)

Notes:
ND = Not detected above noted laboratory detection limit.
mg/kg (ppm) = milligram per kilogram (parts per million).
* = Laboratory QC result is outside of established limits noted.

Table 2
PCB Soil Survey Data
Harvard University
168 Western Avenue
Allston, Massachusetts

Sample No.	S-22-2'	S-22-3'	S-23	S-24	S-25	S-26	S-34	S-34-3'
Material	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Depth	2'	3'	5"	5"	5"	5"	Surface	3'
Distance from Building	6"	6"	2'	2'	2'	1'	18"	18"
Sample Type	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab
Sample Purpose	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment
Location	Showroom, West Fadace	Showroom, West Fadace	Showroom, West Fadace	Showroom, West Fadace	Showroom, West Fadace	Showroom, West Fadace	Showroom, West Fadace	Showroom, West Fadace
Lab Sample ID	11J0970-04	11K0199-07	11J0973-05	11J0973-06	11J0973-07	11J0973-08	11K0333-03	11K0333-04
Date Collected	10/25/2011	10/25/2011	10/25/2011	10/25/2011	10/25/2011	10/25/2011	11/9/2011	11/9/2011
Prep Method	EPA 3540C	EPA 3540C	EPA 3540C	EPA 3540C	EPA 3540C	EPA 3540C	EPA 3540C	EPA 3540C
Analytical Method	EPA 8082	EPA 8082	EPA 8082	EPA 8082	EPA 8082	EPA 8082	EPA 8082	EPA 8082
Compound	Concentration (mg/kg (ppm))	Concentration (mg/kg (ppm))	Concentration (mg/kg (ppm))	Concentration (mg/kg (ppm))	Concentration (mg/kg (ppm))	Concentration (mg/kg (ppm))	Concentration (mg/kg (ppm))	Concentration (mg/kg (ppm))
Aroclor-1016	N.D. (0.22)	N.D. (0.11)	N.D. (0.20)	N.D. (0.14)	N.D. (0.11)	N.D. (0.11)	N.D. (0.12)	N.D. (0.12)
Aroclor-1221	N.D. (0.22)	N.D. (0.11)	N.D. (0.20)	N.D. (0.14)	N.D. (0.11)	N.D. (0.11)	N.D. (0.12)	N.D. (0.12)
Aroclor-1232	N.D. (0.22)	N.D. (0.11)	N.D. (0.20)	N.D. (0.14)	N.D. (0.11)	N.D. (0.11)	N.D. (0.12)	N.D. (0.12)
Aroclor-1242	N.D. (0.22)	N.D. (0.11)	N.D. (0.20)	N.D. (0.14)	N.D. (0.11)	N.D. (0.11)	N.D. (0.12)	N.D. (0.12)
Aroclor-1248	N.D. (0.22)	N.D. (0.11)	N.D. (0.20)	N.D. (0.14)	N.D. (0.11)	N.D. (0.11)	N.D. (0.12)	N.D. (0.12)
Aroclor-1254	1.8	N.D. (0.11)	0.43	0.28	0.17	N.D. (0.11)	0.21	N.D. (0.12)
Aroclor-1260	N.D. (0.22)	N.D. (0.11)	N.D. (0.20)	N.D. (0.14)	N.D. (0.11)	N.D. (0.11)	N.D. (0.12)	N.D. (0.12)
Aroclor-1262	N.D. (0.22)	N.D. (0.11)	N.D. (0.20)	N.D. (0.14)	N.D. (0.11)	N.D. (0.11)	N.D. (0.12)	N.D. (0.12)
Aroclor-1268	N.D. (0.22)	N.D. (0.11)	N.D. (0.20)	N.D. (0.14)	N.D. (0.11)	N.D. (0.11)	N.D. (0.12)	N.D. (0.12)
TOTAL PCBs	1.8	N.D. (0.11)	0.43	0.28	0.17	N.D. (0.11)	0.21	N.D. (0.12)
Surrogates:								
Compound	% Recovery	% Recovery	% Recovery	% Recovery	% Recovery	% Recovery	% Recovery	% Recovery
DCBP [1]	110 (30-150)	84.6 (30-150)	78.1 (30-150)	74.8 (30-150)	83.3 (30-150)	86.8 (30-150)	75.7 (30-150)	77.0 (30-150)
DCBP [2]	116 (30-150)	94.5 (30-150)	78.5 (30-150)	76.2 (30-150)	86.4 (30-150)	85.8 (30-150)	80.3 (30-150)	79.3 (30-150)
TCMX [1]	109 (30-150)	75.6 (30-150)	107 (30-150)	114 (30-150)	110 (30-150)	112 (30-150)	85.1 (30-150)	82.6 (30-150)
TCMX [2]	122 (30-150)	77.4 (30-150)	105 (30-150)	112 (30-150)	108 (30-150)	109 (30-150)	87.4 (30-150)	87.5 (30-150)

Notes:
ND = Not detected above noted laboratory detection limit.
mg/kg (ppm) = milligram per kilogram (parts per million).
* = Laboratory QC result is outside of established limits noted.

Table 2
PCB Soil Survey Data
Harvard University
168 Western Avenue
Allston, Massachusetts

Sample No.	S-35	S-35-3'	S-36	S-36-3'	S-39	S-39-3'	S-40	S-40-3'
Material	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Depth	Surface	3'	Surface	3'	Surface	3'	Surface	3'
Distance from Building	18"	18"	18"	18"	18"	18"	18"	18"
Sample Type	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab
Sample Purpose	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment
Location	Showroom, West Fadace	Showroom, West Fadace	Showroom, West Fadace	Showroom, West Fadace	Showroom, West Fadace	Showroom, West Fadace	Showroom, West Fadace	Showroom, West Fadace
Lab Sample ID	11K0333-05	11K0333-06	11K0333-07	11K0333-08	11K0333-09	11K0333-10	11K0333-11	11K0333-12
Date Collected	11/9/2011	11/9/2011	11/9/2011	11/9/2011	11/9/2011	11/9/2011	11/9/2011	11/9/2011
Prep Method	EPA 3540C	EPA 3540C	EPA 3540C	EPA 3540C	EPA 3540C	EPA 3540C	EPA 3540C	EPA 3540C
Analytical Method	EPA 8082	EPA 8082	EPA 8082	EPA 8082	EPA 8082	EPA 8082	EPA 8082	EPA 8082
Compound	Concentration (mg/kg (ppm))	Concentration (mg/kg (ppm))	Concentration (mg/kg (ppm))	Concentration (mg/kg (ppm))	Concentration (mg/kg (ppm))	Concentration (mg/kg (ppm))	Concentration (mg/kg (ppm))	Concentration (mg/kg (ppm))
Aroclor-1016	N.D. (0.12)	N.D. (0.11)	N.D. (0.12)	N.D. (0.11)	N.D. (0.12)	N.D. (0.11)	N.D. (0.13)	N.D. (0.11)
Aroclor-1221	N.D. (0.12)	N.D. (0.11)	N.D. (0.12)	N.D. (0.11)	N.D. (0.12)	N.D. (0.11)	N.D. (0.13)	N.D. (0.11)
Aroclor-1232	N.D. (0.12)	N.D. (0.11)	N.D. (0.12)	N.D. (0.11)	N.D. (0.12)	N.D. (0.11)	N.D. (0.13)	N.D. (0.11)
Aroclor-1242	N.D. (0.12)	N.D. (0.11)	N.D. (0.12)	N.D. (0.11)	N.D. (0.12)	N.D. (0.11)	N.D. (0.13)	N.D. (0.11)
Aroclor-1248	N.D. (0.12)	N.D. (0.11)	N.D. (0.12)	N.D. (0.11)	N.D. (0.12)	N.D. (0.11)	N.D. (0.13)	N.D. (0.11)
Aroclor-1254	0.16	N.D. (0.11)	N.D. (0.12)	N.D. (0.11)	N.D. (0.12)	N.D. (0.11)	N.D. (0.13)	N.D. (0.11)
Aroclor-1260	N.D. (0.12)	N.D. (0.11)	N.D. (0.12)	N.D. (0.11)	N.D. (0.12)	N.D. (0.11)	N.D. (0.13)	N.D. (0.11)
Aroclor-1262	N.D. (0.12)	N.D. (0.11)	N.D. (0.12)	N.D. (0.11)	N.D. (0.12)	N.D. (0.11)	N.D. (0.13)	N.D. (0.11)
Aroclor-1268	N.D. (0.12)	N.D. (0.11)	N.D. (0.12)	N.D. (0.11)	N.D. (0.12)	N.D. (0.11)	N.D. (0.13)	N.D. (0.11)
TOTAL PCBs	0.16	N.D. (0.11)	N.D. (0.12)	N.D. (0.11)	N.D. (0.12)	N.D. (0.11)	N.D. (0.13)	N.D. (0.11)
Surrogates:								
Compound	% Recovery	% Recovery	% Recovery	% Recovery	% Recovery	% Recovery	% Recovery	% Recovery
DCBP [1]	70.0 (30-150)	79.6 (30-150)	80.2 (30-150)	78.2 (30-150)	75.5 (30-150)	74.0 (30-150)	62.7 (30-150)	69.9 (30-150)
DCBP [2]	73.7 (30-150)	82.3 (30-150)	87.8 (30-150)	81.5 (30-150)	79.3 (30-150)	77.5 (30-150)	67.9 (30-150)	73.9 (30-150)
TCMX [1]	82.8 (30-150)	87.4 (30-150)	91.7 (30-150)	88.4 (30-150)	80.5 (30-150)	88.6 (30-150)	84.8 (30-150)	92.9 (30-150)
TCMX [2]	87.2 (30-150)	91.6 (30-150)	95.6 (30-150)	92.7 (30-150)	84.6 (30-150)	94.8 (30-150)	89.0 (30-150)	97.1 (30-150)

Notes:

ND = Not detected above noted laboratory detection limit.

mg/kg (ppm) = milligram per kilogram (parts per million).

* = Laboratory QC result is outside of established limits noted.

Table 2
PCB Soil Survey Data
Harvard University
168 Western Avenue
Allston, Massachusetts

Sample No.	Base A-Gravel-A	Base A-Gravel-B	S-16C	S-17C	S-18C	S-19A	S-19B	S-19C
Material	Gravel	Gravel	Soil	Soil	Soil	Soil	Soil	Soil
Depth	Surficial	Surficial	8"	8"	8"	8"	8"	8"
Distance from Building	6"	6"	6" and 12"	6" and 12"	6" and 12"	6"	12"	6" and 12"
Sample Type	Grab	Grab	Composite	Composite	Composite	Grab	Grab	Composite
Sample Purpose	Assessment	Assessment	Confirmation	Confirmation	Confirmation	Confirmation	Confirmation	Confirmation
Location	Adjacent to Showroom Window, West Façade	Adjacent to Showroom Window, North Façade	Garage, North Façade	Garage, North Façade	Garage, North Façade	Garage, North Façade	Garage, North Façade	Garage, North Façade
Lab Sample ID	11J0677-01	11J0677-02	11J0554-16	11J0554-17	11J0554-18	11J0973-13	11J0973-14	11J0554-19
Date Collected	8/30/2011	8/30/2011	10/14/2011	10/14/2011	10/14/2011	10/14/2011	10/14/2011	10/14/2011
Prep Method	EPA 3540C	EPA 3540C	EPA 3540C	EPA 3540C	EPA 3540C	EPA 3540C	EPA 3540C	EPA 3540C
Analytical Method	EPA 8082	EPA 8082	EPA 8082	EPA 8082	EPA 8082	EPA 8082	EPA 8082	EPA 8082
Compound	Concentration (mg/kg (ppm))	Concentration (mg/kg (ppm))	Concentration (mg/kg (ppm))	Concentration (mg/kg (ppm))	Concentration (mg/kg (ppm))	Concentration (mg/kg (ppm))	Concentration (mg/kg (ppm))	Concentration (mg/kg (ppm))
Aroclor-1016	N.D. (0.095)	N.D. (0.091)	N.D. (0.10)	N.D. (0.11)	N.D. (0.11)	N.D. (0.11)	N.D. (0.11)	N.D. (0.10)
Aroclor-1221	N.D. (0.095)	N.D. (0.091)	N.D. (0.10)	N.D. (0.11)	N.D. (0.11)	N.D. (0.11)	N.D. (0.11)	N.D. (0.10)
Aroclor-1232	N.D. (0.095)	N.D. (0.091)	N.D. (0.10)	N.D. (0.11)	N.D. (0.11)	N.D. (0.11)	N.D. (0.11)	N.D. (0.10)
Aroclor-1242	N.D. (0.095)	N.D. (0.091)	N.D. (0.10)	N.D. (0.11)	N.D. (0.11)	N.D. (0.11)	N.D. (0.11)	N.D. (0.10)
Aroclor-1248	N.D. (0.095)	N.D. (0.091)	N.D. (0.10)	N.D. (0.11)	N.D. (0.11)	N.D. (0.11)	N.D. (0.11)	N.D. (0.10)
Aroclor-1254	N.D. (0.095)	N.D. (0.091)	N.D. (0.10)	N.D. (0.11)	N.D. (0.11)	N.D. (0.11)	0.39	0.27
Aroclor-1260	N.D. (0.095)	N.D. (0.091)	N.D. (0.10)	N.D. (0.11)	N.D. (0.11)	N.D. (0.11)	N.D. (0.11)	N.D. (0.10)
Aroclor-1262	N.D. (0.095)	N.D. (0.091)	N.D. (0.10)	N.D. (0.11)	N.D. (0.11)	N.D. (0.11)	N.D. (0.11)	N.D. (0.10)
Aroclor-1268	N.D. (0.095)	N.D. (0.091)	N.D. (0.10)	N.D. (0.11)	N.D. (0.11)	N.D. (0.11)	N.D. (0.11)	N.D. (0.10)
TOTAL PCBs	N.D. (0.095)	N.D. (0.091)	N.D. (0.10)	N.D. (0.11)	N.D. (0.11)	0.39	N.D. (0.11)	0.27
Surrogates:								
Compound	% Recovery	% Recovery	% Recovery	% Recovery	% Recovery	% Recovery	% Recovery	% Recovery
DCBP [1]	88.9 (30-150)	88.4 (30-150)	103 (30-150)	109 (30-150)	96.1 (30-150)	87.2 (30-150)	89.1 (30-150)	95.5 (30-150)
DCBP [2]	89.7 (30-150)	89.1 (30-150)	115 (30-150)	121 (30-150)	108 (30-150)	86.5 (30-150)	89.2 (30-150)	107 (30-150)
TCMX [1]	103 (30-150)	99.9 (30-150)	110 (30-150)	114 (30-150)	111 (30-150)	113 (30-150)	113 (30-150)	115 (30-150)
TCMX [2]	107 (30-150)	104 (30-150)	118 (30-150)	120 (30-150)	117 (30-150)	110 (30-150)	110 (30-150)	123 (30-150)

Notes:
ND = Not detected above noted laboratory detection limit.
mg/kg (ppm) = milligram per kilogram (parts per million).
* = Laboratory QC result is outside of established limits noted.

Table 2
PCB Soil Survey Data
Harvard University
168 Western Avenue
Allston, Massachusetts

Sample No.	S-20A	S-20B	S-20C	S-20D	S-20D-20"	S-27	S-28
Material	Non-soil / Building material / Aggregate	Soil	Soil	Soil	Soil	Soil	Soil
Depth	8"	8"	8"	8"	20"	4"	4"
Distance from Building	6"	12"	6" and 12"	2'	2'	1'	3'
Sample Type	Grab	Grab	Composite	Grab	Grab	Grab	Grab
Sample Purpose	Confirmation	Confirmation	Confirmation	Confirmation	Confirmation	Assessment	Assessment
Location	Garage, North Façade	Garage, North Façade	Garage, North Façade	Garage, North Façade	Garage, North Façade	Garage, North Façade	Garage, North Façade
Lab Sample ID	11J0973-11	11J0973-12	11J0554-20	11J0973-15	11J0970-12	11J0973-10	11J0973-09
Date Collected	10/14/2011	10/14/2011	10/14/2011	10/25/2011	10/25/2011	10/25/2011	10/25/2011
Prep Method	EPA 3540C	EPA 3540C	EPA 3540C	EPA 3540C	EPA 3540C	EPA 3540C	EPA 3540C
Analytical Method	EPA 8082	EPA 8082	EPA 8082	EPA 8082	EPA 8082	EPA 8082	EPA 8082
Compound	Concentration (mg/kg (ppm))	Concentration (mg/kg (ppm))	Concentration (mg/kg (ppm))	Concentration (mg/kg (ppm))	Concentration (mg/kg (ppm))	Concentration (mg/kg (ppm))	Concentration (mg/kg (ppm))
Aroclor-1016	N.D. (0.44)	N.D. (0.11)	N.D. (0.11)	N.D. (0.11)	N.D. (0.10)	N.D. (0.10)	N.D. (0.10)
Aroclor-1221	N.D. (0.44)	N.D. (0.11)	N.D. (0.11)	N.D. (0.11)	N.D. (0.10)	N.D. (0.10)	N.D. (0.10)
Aroclor-1232	N.D. (0.44)	N.D. (0.11)	N.D. (0.11)	N.D. (0.11)	N.D. (0.10)	N.D. (0.10)	N.D. (0.10)
Aroclor-1242	N.D. (0.44)	N.D. (0.11)	N.D. (0.11)	N.D. (0.11)	N.D. (0.10)	N.D. (0.10)	N.D. (0.10)
Aroclor-1248	N.D. (0.44)	N.D. (0.11)	N.D. (0.11)	N.D. (0.11)	N.D. (0.10)	N.D. (0.10)	N.D. (0.10)
Aroclor-1254	2.3	1.1	1.3	N.D. (0.11)	N.D. (0.10)	N.D. (0.10)	0.16
Aroclor-1260	N.D. (0.44)	N.D. (0.11)	N.D. (0.11)	N.D. (0.11)	N.D. (0.10)	N.D. (0.10)	N.D. (0.10)
Aroclor-1262	N.D. (0.44)	N.D. (0.11)	N.D. (0.11)	N.D. (0.11)	N.D. (0.10)	N.D. (0.10)	N.D. (0.10)
Aroclor-1268	N.D. (0.44)	N.D. (0.11)	N.D. (0.11)	N.D. (0.11)	N.D. (0.10)	N.D. (0.10)	N.D. (0.10)
TOTAL PCBs	2.3	1.1	1.3	N.D. (0.11)	N.D. (0.10)	N.D. (0.10)	0.16
Surrogates:							
Compound	% Recovery	% Recovery	% Recovery	% Recovery	% Recovery	% Recovery	% Recovery
DCBP [1]	105 (30-150)	83.0 (30-150)	91.1 (30-150)	83.0 (30-150)	96.2 (30-150)	85.9 (30-150)	90.3 (30-150)
DCBP [2]	101 (30-150)	83.8 (30-150)	103 (30-150)	82.3 (30-150)	95.0 (30-150)	86.9 (30-150)	91.7 (30-150)
TCMX [1]	128 (30-150)	113 (30-150)	107 (30-150)	111 (30-150)	101 (30-150)	113 (30-150)	114 (30-150)
TCMX [2]	130 (30-150)	111 (30-150)	113 (30-150)	111 (30-150)	108 (30-150)	113 (30-150)	106 (30-150)

Notes:
ND = Not detected above noted laboratory detection limit.
mg/kg (ppm) = milligram per kilogram (parts per million).
* = Laboratory QC result is outside of established limits noted.

Table 3
PCB Indoor Air Survey Data
Harvard University
168 Western Avenue
Allston, Massachusetts

Sample Location	Showroom-Central	Showroom-South	Garage-Central
Sample Date	11/9/2011	11/9/2011	11/9/2011
Sample ID	LP-205	LP-225	LP-281
PCB Homologs (ng/cart)(Sample Method EPA TO-10A(low flow), Extraction Method 3540C(Soxhlet),Analysis Method EPA 608/8270)			
Monochlorobiphenyls	27.3	16.4	33
Dichlorobiphenyls	42	24.4	41.6
Trichlorobiphenyls	36.6	16.5	25.3
Tetrachlorobiphenyls	33.5	25.2	21.3
Pentachlorobiphenyls	43.3	27.2	ND (10)
Hexachlorobiphenyls	ND (10)	ND (10)	ND (10)
Heptachlorobiphenyls	ND (10)	ND (10)	ND (10)
Octachlorobiphenyls	ND (10)	ND (10)	ND (10)
Nonachlorobiphenyls	ND (10)	ND (10)	ND (10)
Decachlorobiphenyl	ND (10)	ND (10)	ND (10)
Surrogate Compounds (% Recovery)			
C13-BZ#19-C13	91	91	97
C18-BZ#202-C13	100	93	101
Total Sample Time (min)	244	244	245
Flow Rate (L/min)	1.603	2.028	1.597
Total Sample Volume (L)	391.132	494.832	391.265
Total Homologs (ng/cart)	182.7	109.7	121.2
Total Homologs (ng/m³)	467.1	221.7	309.8

Notes:

Min. = Minutes

L/min. = Liter per minute

ng/cart = nanograms per cartridge

ng/m³ = nanograms per cubic meter

Appendix A

Photographs

PCB-Containing Building Material Survey

Harvard University
168 Western Avenue
Allston, Massachusetts



Photograph No. 1: View of typical storefront windows and fascia at northern façade of Showroom, adjacent to Western Avenue.



Photograph No. 2: View of typical storefront windows at northern façade of Garage, adjacent to parking area.

PCB-Containing Building Material Survey

Harvard University
168 Western Avenue
Allston, Massachusetts



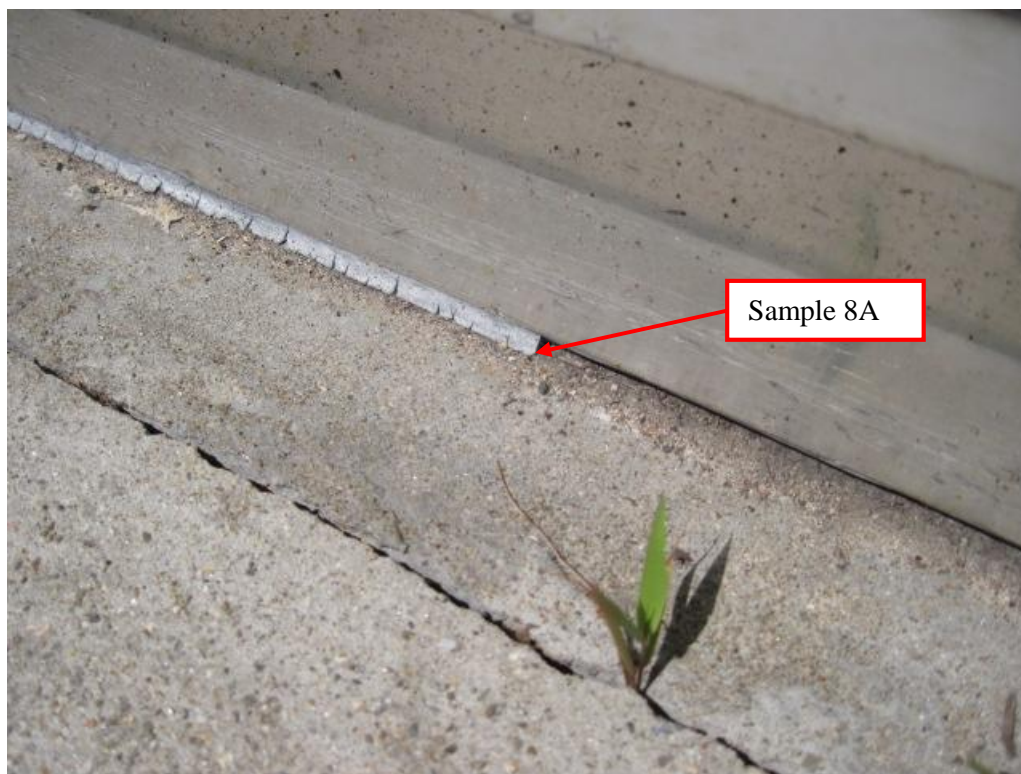
Photograph No. 3: View of Sample 6A-Exterior Window Glazing location.



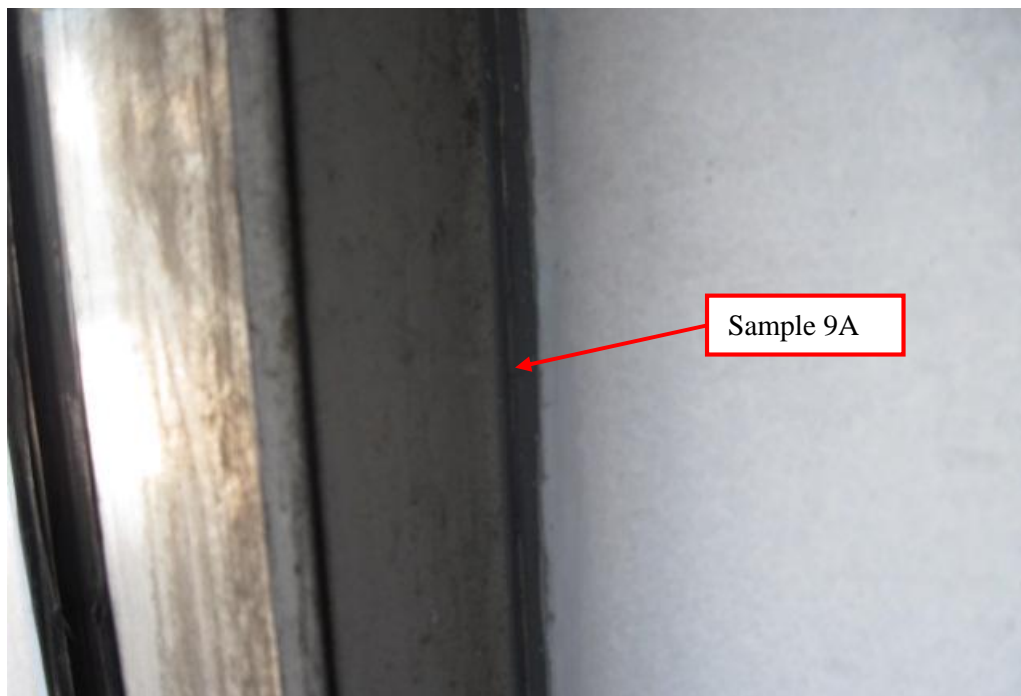
Photograph No. 4: View of Sample 7A-Exterior Window/Door Caulking location.

PCB-Containing Building Material Survey

Harvard University
168 Western Avenue
Allston, Massachusetts



Photograph No. 5: View of PCB Sample 8A-Exterior Window Caulking location.



Photograph No. 6: View of PCB Sample 9A-Interior Window/Door Caulking location.

PCB-Containing Building Material Survey

Harvard University
168 Western Avenue
Allston, Massachusetts



Photograph No. 7: View of Sample 10A-Interior Window/Door glazing location.



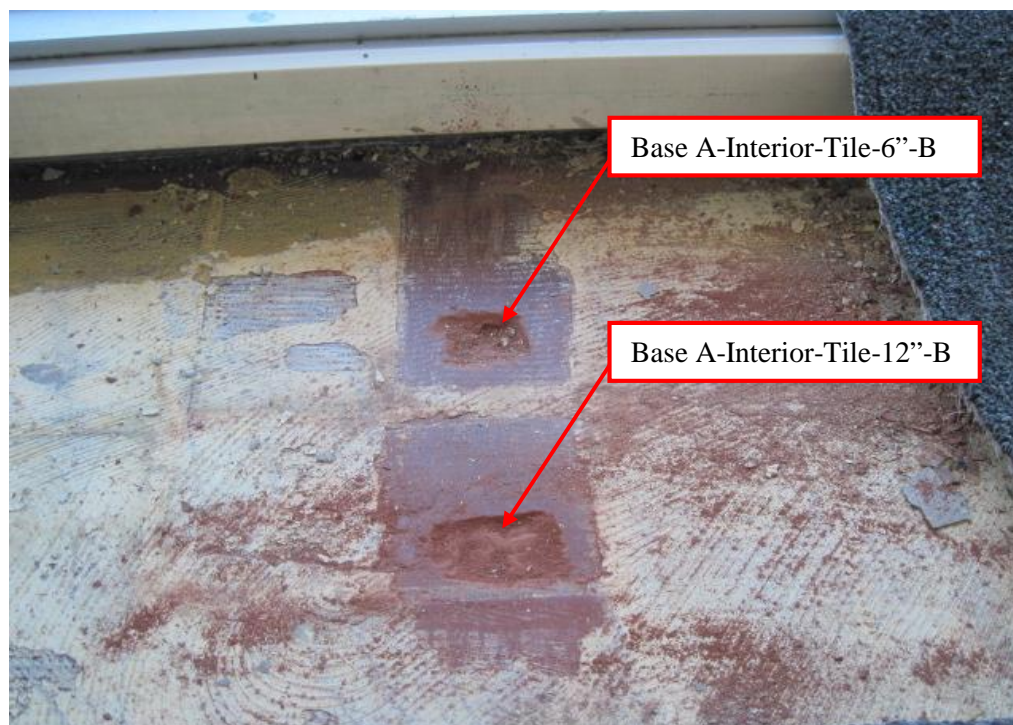
Photograph No. 8: View of a typical abutting concrete sample (Sample Eave A location).

PCB-Containing Building Material Survey

Harvard University
168 Western Avenue
Allston, Massachusetts



Photograph No. 9: View of a typical abutting concrete sample (Sample Base B location).



Photograph No. 10: View of typical tile samples (Samples Base A-Interior-Tile-6''-B and Base A-Interior-Tile-12''-B).

Appendix B
Laboratory Analytical Reports

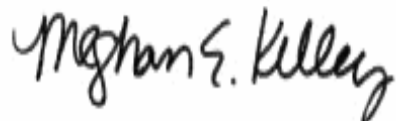
July 11, 2011

Jason Roback
ATC Associates - Woburn
600 W Cummings Park, Suite 5500
Woburn, MA 01801

Project Location: 168 Western, Allston
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 11G0036

Enclosed are results of analyses for samples received by the laboratory on July 1, 2011. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, reading "Meghan E. Kelley". The signature is written in a cursive, flowing style.

Meghan E. Kelley
Project Manager

ATC Associates - Woburn
600 W Cummings Park, Suite 5500
Woburn, MA 01801
ATTN: Jason Roback

REPORT DATE: 7/11/2011

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 11G0036

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 168 Western, Allston

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
6A	11G0036-01	Caulk	Ext. Window Glaze	SW-846 8082A	
7A	11G0036-02	Caulk	Ext. Window /Door Caulk	SW-846 8082A	
8A	11G0036-03	Caulk	Ext. Window Caulk	SW-846 8082A	
9A	11G0036-04	Caulk	Int. Window/Door Caulk	SW-846 8082A	
10A	11G0036-05	Caulk	Int. Window/Door Glaze	SW-846 8082A	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

SW-846 8082A**Qualifications:**

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Samples(s) Qualified:

Decachlorobiphenyl, Decachlorobiphenyl [2C], Tetrachloro-m-xylene, Tetrachloro-m-xylene [2C]

11G0036-02[7A], 11G0036-03[8A], 11G0036-04[9A]

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Daren J. Damboragian
Laboratory Manager

Project Location: 168 Western, Allston

Sample Description: Ext. Window Glaze

Work Order: 11G0036

Date Received: 7/1/2011

Field Sample #: 6A

Sampled: 6/30/2011 11:00

Sample ID: 11G0036-01

Sample Matrix: Caulk

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.99	mg/Kg	5		SW-846 8082A	7/1/11	7/9/11 9:15	JMB
Aroclor-1221 [1]	ND	0.99	mg/Kg	5		SW-846 8082A	7/1/11	7/9/11 9:15	JMB
Aroclor-1232 [1]	ND	0.99	mg/Kg	5		SW-846 8082A	7/1/11	7/9/11 9:15	JMB
Aroclor-1242 [1]	ND	0.99	mg/Kg	5		SW-846 8082A	7/1/11	7/9/11 9:15	JMB
Aroclor-1248 [1]	ND	0.99	mg/Kg	5		SW-846 8082A	7/1/11	7/9/11 9:15	JMB
Aroclor-1254 [1]	3.9	0.99	mg/Kg	5		SW-846 8082A	7/1/11	7/9/11 9:15	JMB
Aroclor-1260 [1]	ND	0.99	mg/Kg	5		SW-846 8082A	7/1/11	7/9/11 9:15	JMB
Aroclor-1262 [1]	ND	0.99	mg/Kg	5		SW-846 8082A	7/1/11	7/9/11 9:15	JMB
Aroclor-1268 [1]	ND	0.99	mg/Kg	5		SW-846 8082A	7/1/11	7/9/11 9:15	JMB
Surrogates	% Recovery		Recovery Limits		Flag				
Decachlorobiphenyl [1]	95.1		30-150				7/9/11 9:15		
Decachlorobiphenyl [2]	96.9		30-150				7/9/11 9:15		
Tetrachloro-m-xylene [1]	93.0		30-150				7/9/11 9:15		
Tetrachloro-m-xylene [2]	102		30-150				7/9/11 9:15		

Project Location: 168 Western, Allston

Sample Description: Ext. Window /Door Caulk

Work Order: 11G0036

Date Received: 7/1/2011

Field Sample #: 7A

Sampled: 6/30/2011 11:30

Sample ID: 11G0036-02

Sample Matrix: Caulk

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	6900	mg/Kg	40000		SW-846 8082A	7/1/11	7/9/11 9:29	JMB
Aroclor-1221 [1]	ND	6900	mg/Kg	40000		SW-846 8082A	7/1/11	7/9/11 9:29	JMB
Aroclor-1232 [1]	ND	6900	mg/Kg	40000		SW-846 8082A	7/1/11	7/9/11 9:29	JMB
Aroclor-1242 [1]	ND	6900	mg/Kg	40000		SW-846 8082A	7/1/11	7/9/11 9:29	JMB
Aroclor-1248 [1]	ND	6900	mg/Kg	40000		SW-846 8082A	7/1/11	7/9/11 9:29	JMB
Aroclor-1254 [1]	97000	6900	mg/Kg	40000		SW-846 8082A	7/1/11	7/9/11 9:29	JMB
Aroclor-1260 [1]	ND	6900	mg/Kg	40000		SW-846 8082A	7/1/11	7/9/11 9:29	JMB
Aroclor-1262 [1]	ND	6900	mg/Kg	40000		SW-846 8082A	7/1/11	7/9/11 9:29	JMB
Aroclor-1268 [1]	ND	6900	mg/Kg	40000		SW-846 8082A	7/1/11	7/9/11 9:29	JMB
Surrogates	% Recovery	Recovery Limits			Flag				
Decachlorobiphenyl [1]	*	30-150			S-01			7/9/11 9:29	
Decachlorobiphenyl [2]	*	30-150			S-01			7/9/11 9:29	
Tetrachloro-m-xylene [1]	*	30-150			S-01			7/9/11 9:29	
Tetrachloro-m-xylene [2]	*	30-150			S-01			7/9/11 9:29	

Project Location: 168 Western, Allston

Sample Description: Ext. Window Caulk

Work Order: 11G0036

Date Received: 7/1/2011

Field Sample #: 8A

Sampled: 6/30/2011 12:00

Sample ID: 11G0036-03

Sample Matrix: Caulk

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	3900	mg/Kg	20000		SW-846 8082A	7/1/11	7/9/11 0:57	JMB
Aroclor-1221 [1]	ND	3900	mg/Kg	20000		SW-846 8082A	7/1/11	7/9/11 0:57	JMB
Aroclor-1232 [1]	ND	3900	mg/Kg	20000		SW-846 8082A	7/1/11	7/9/11 0:57	JMB
Aroclor-1242 [1]	ND	3900	mg/Kg	20000		SW-846 8082A	7/1/11	7/9/11 0:57	JMB
Aroclor-1248 [1]	ND	3900	mg/Kg	20000		SW-846 8082A	7/1/11	7/9/11 0:57	JMB
Aroclor-1254 [1]	60000	3900	mg/Kg	20000		SW-846 8082A	7/1/11	7/9/11 0:57	JMB
Aroclor-1260 [1]	ND	3900	mg/Kg	20000		SW-846 8082A	7/1/11	7/9/11 0:57	JMB
Aroclor-1262 [1]	ND	3900	mg/Kg	20000		SW-846 8082A	7/1/11	7/9/11 0:57	JMB
Aroclor-1268 [1]	ND	3900	mg/Kg	20000		SW-846 8082A	7/1/11	7/9/11 0:57	JMB
Surrogates	% Recovery	Recovery Limits			Flag				
Decachlorobiphenyl [1]	*	30-150			S-01			7/9/11 0:57	
Decachlorobiphenyl [2]	*	30-150			S-01			7/9/11 0:57	
Tetrachloro-m-xylene [1]	*	30-150			S-01			7/9/11 0:57	
Tetrachloro-m-xylene [2]	*	30-150			S-01			7/9/11 0:57	

Project Location: 168 Western, Allston

Sample Description: Int. Window/Door Caulk

Work Order: 11G0036

Date Received: 7/1/2011

Field Sample #: 9A

Sampled: 6/30/2011 12:30

Sample ID: 11G0036-04

Sample Matrix: Caulk

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	6900	mg/Kg	40000		SW-846 8082A	7/1/11	7/9/11 9:42	JMB
Aroclor-1221 [1]	ND	6900	mg/Kg	40000		SW-846 8082A	7/1/11	7/9/11 9:42	JMB
Aroclor-1232 [1]	ND	6900	mg/Kg	40000		SW-846 8082A	7/1/11	7/9/11 9:42	JMB
Aroclor-1242 [1]	ND	6900	mg/Kg	40000		SW-846 8082A	7/1/11	7/9/11 9:42	JMB
Aroclor-1248 [1]	ND	6900	mg/Kg	40000		SW-846 8082A	7/1/11	7/9/11 9:42	JMB
Aroclor-1254 [1]	110000	6900	mg/Kg	40000		SW-846 8082A	7/1/11	7/9/11 9:42	JMB
Aroclor-1260 [1]	ND	6900	mg/Kg	40000		SW-846 8082A	7/1/11	7/9/11 9:42	JMB
Aroclor-1262 [1]	ND	6900	mg/Kg	40000		SW-846 8082A	7/1/11	7/9/11 9:42	JMB
Aroclor-1268 [1]	ND	6900	mg/Kg	40000		SW-846 8082A	7/1/11	7/9/11 9:42	JMB
Surrogates	% Recovery	Recovery Limits			Flag				
Decachlorobiphenyl [1]	*	30-150			S-01			7/9/11 9:42	
Decachlorobiphenyl [2]	*	30-150			S-01			7/9/11 9:42	
Tetrachloro-m-xylene [1]	*	30-150			S-01			7/9/11 9:42	
Tetrachloro-m-xylene [2]	*	30-150			S-01			7/9/11 9:42	

Project Location: 168 Western, Allston

Sample Description: Int. Window/Door Glaze

Work Order: 11G0036

Date Received: 7/1/2011

Field Sample #: 10A

Sampled: 6/30/2011 13:00

Sample ID: 11G0036-05

Sample Matrix: Caulk

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.87	mg/Kg	5		SW-846 8082A	7/1/11	7/9/11 9:55	JMB
Aroclor-1221 [1]	ND	0.87	mg/Kg	5		SW-846 8082A	7/1/11	7/9/11 9:55	JMB
Aroclor-1232 [1]	ND	0.87	mg/Kg	5		SW-846 8082A	7/1/11	7/9/11 9:55	JMB
Aroclor-1242 [1]	ND	0.87	mg/Kg	5		SW-846 8082A	7/1/11	7/9/11 9:55	JMB
Aroclor-1248 [1]	ND	0.87	mg/Kg	5		SW-846 8082A	7/1/11	7/9/11 9:55	JMB
Aroclor-1254 [1]	2.2	0.87	mg/Kg	5		SW-846 8082A	7/1/11	7/9/11 9:55	JMB
Aroclor-1260 [1]	ND	0.87	mg/Kg	5		SW-846 8082A	7/1/11	7/9/11 9:55	JMB
Aroclor-1262 [1]	ND	0.87	mg/Kg	5		SW-846 8082A	7/1/11	7/9/11 9:55	JMB
Aroclor-1268 [1]	ND	0.87	mg/Kg	5		SW-846 8082A	7/1/11	7/9/11 9:55	JMB
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	97.7	30-150						7/9/11 9:55	
Decachlorobiphenyl [2]	98.0	30-150						7/9/11 9:55	
Tetrachloro-m-xylene [1]	88.8	30-150						7/9/11 9:55	
Tetrachloro-m-xylene [2]	104	30-150						7/9/11 9:55	

Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
11G0036-01 [6A]	B033054	0.505	10.0	07/01/11
11G0036-02 [7A]	B033054	0.579	10.0	07/01/11
11G0036-03 [8A]	B033054	0.507	10.0	07/01/11
11G0036-04 [9A]	B033054	0.576	10.0	07/01/11
11G0036-05 [10A]	B033054	0.575	10.0	07/01/11

QUALITY CONTROL
Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B033054 - SW-846 3540C
Blank (B033054-BLK1)

Prepared: 07/01/11 Analyzed: 07/08/11

Aroclor-1016	ND	0.20	mg/Kg							
Aroclor-1016 [2C]	ND	0.20	mg/Kg							
Aroclor-1221	ND	0.20	mg/Kg							
Aroclor-1221 [2C]	ND	0.20	mg/Kg							
Aroclor-1232	ND	0.20	mg/Kg							
Aroclor-1232 [2C]	ND	0.20	mg/Kg							
Aroclor-1242	ND	0.20	mg/Kg							
Aroclor-1242 [2C]	ND	0.20	mg/Kg							
Aroclor-1248	ND	0.20	mg/Kg							
Aroclor-1248 [2C]	ND	0.20	mg/Kg							
Aroclor-1254	ND	0.20	mg/Kg							
Aroclor-1254 [2C]	ND	0.20	mg/Kg							
Aroclor-1260	ND	0.20	mg/Kg							
Aroclor-1260 [2C]	ND	0.20	mg/Kg							
Aroclor-1262	ND	0.20	mg/Kg							
Aroclor-1262 [2C]	ND	0.20	mg/Kg							
Aroclor-1268	ND	0.20	mg/Kg							
Aroclor-1268 [2C]	ND	0.20	mg/Kg							
Surrogate: Decachlorobiphenyl	3.41		mg/Kg	4.00		85.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	3.40		mg/Kg	4.00		85.0	30-150			
Surrogate: Tetrachloro-m-xylene	3.77		mg/Kg	4.00		94.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	3.85		mg/Kg	4.00		96.2	30-150			

LCS (B033054-BS1)

Prepared: 07/01/11 Analyzed: 07/08/11

Aroclor-1016	3.4	0.20	mg/Kg	4.00		86.1	40-140			
Aroclor-1016 [2C]	3.5	0.20	mg/Kg	4.00		87.5	40-140			
Aroclor-1260	3.3	0.20	mg/Kg	4.00		81.5	40-140			
Aroclor-1260 [2C]	3.3	0.20	mg/Kg	4.00		83.7	40-140			
Surrogate: Decachlorobiphenyl	3.53		mg/Kg	4.00		88.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	3.48		mg/Kg	4.00		87.0	30-150			
Surrogate: Tetrachloro-m-xylene	3.78		mg/Kg	4.00		94.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	3.84		mg/Kg	4.00		96.1	30-150			

LCS Dup (B033054-BSD1)

Prepared: 07/01/11 Analyzed: 07/08/11

Aroclor-1016	3.5	0.20	mg/Kg	4.00		87.2	40-140	1.21	30	
Aroclor-1016 [2C]	3.5	0.20	mg/Kg	4.00		87.9	40-140	0.437	30	
Aroclor-1260	3.2	0.20	mg/Kg	4.00		80.8	40-140	0.839	30	
Aroclor-1260 [2C]	3.3	0.20	mg/Kg	4.00		83.0	40-140	0.900	30	
Surrogate: Decachlorobiphenyl	3.38		mg/Kg	4.00		84.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	3.40		mg/Kg	4.00		85.1	30-150			
Surrogate: Tetrachloro-m-xylene	3.79		mg/Kg	4.00		94.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	3.89		mg/Kg	4.00		97.2	30-150			

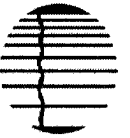
FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

CERTIFICATIONS**Certified Analyses included in this Report****Analyte****Certifications****No certified Analyses included in this Report**

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	American Industrial Hygiene Association	100033	01/1/2012
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Public Health	PH-0567	09/30/2011
NY	New York State Department of Health	10899 NELAP	04/1/2012
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2012
RI	Rhode Island Department of Health	LAO00112	12/30/2011
NC	North Carolina Div. of Water Quality	652	12/31/2011
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2011
WA	State of Washington Department of Ecology	C2065	02/23/2012
ME	State of Maine	2011028	06/9/2013



con-test[®]
ANALYTICAL LABORATORY

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Company Name: ATC

Address: 6000 W. Cummings Rd. #540

Attention: J. ROBERTSON

Project # 1160036

Telephone: 781-404-1419

Client PO#

DATA DELIVERY (check all that apply)
☐ FAX ☒ EMAIL ☐ WEBSITE

Project Location: 105 Webster, Austin

Sampled By: J. ROBERTSON

Format: ☒ PDF ☐ EXCEL ☐ OGIS

Project Proposal Provided? (for billing purposes)
☐ Yes ☐ No

Con-Test Lab ID

Client Sample ID / Description

Beginning Date/Time

Ending Date/Time

Composite

Grab

Matrix Code

Conc Code

Enhanced Data Package

Analysis Requested

Discontinued Metals
☐ Field Filtered
☐ Lab to Filter

Received by: ATC

Date/Time: 7/11/11

Received by: ATC

Date/Time: 7/11/11

Received by: ATC

Date/Time: 7/11/11

Received by: ATC

Date/Time: 7/11/11

Received by: ATC

Date/Time: 7/11/11

Received by: ATC

Date/Time: 7/11/11

Comments:

DL of 21 ppm

Turnaround Time

7-Day

14-Day

21-Day

28-Day

35-Day

42-Day

49-Day

56-Day

63-Day

Received by: ATC

Date/Time: 7/11/11

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Date/Time: 7/11/11

Received by: ATC

Date/Time: 7/11/11

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com



Sample Receipt Checklist

CLIENT NAME: ATC RECEIVED BY: AM DATE: 7/1/11

- 1) Was the chain(s) of custody relinquished and signed? Yes No No CoC Included
2) Does the chain agree with the samples? Yes No
If not, explain:
3) Are all the samples in good condition? Yes No
If not, explain:

4) How were the samples received:

On Ice ☒ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☒

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 3.4°C

5) Are there Dissolved samples for the lab to filter? Yes No

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? Yes No

Who was notified _____ Date _____ Time _____

7) Location where samples are stored:

19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	<u>5</u>
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____
Bisulfate _____ # DI Water _____
Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

Do all samples have the proper Acid pH: Yes No N/A

Do all samples have the proper Base pH: Yes No N/A

Doc# 277

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Rev. 1 May 2011

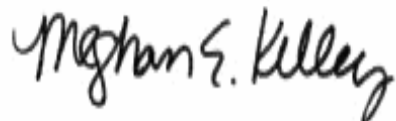
August 11, 2011

Jason Roback
ATC Associates - Woburn
600 W Cummings Park, Suite 5500
Woburn, MA 01801

Project Location: 168 Western Ave, Allston
Client Job Number:
Project Number: 60
Laboratory Work Order Number: 11H0171

Enclosed are results of analyses for samples received by the laboratory on August 4, 2011. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Meghan E. Kelley
Project Manager

ATC Associates - Woburn
600 W Cummings Park, Suite 5500
Woburn, MA 01801
ATTN: Jason Roback

REPORT DATE: 8/11/2011

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 60

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 11H0171

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 168 Western Ave, Allston

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
1	11H0171-01	Concrete	Spandrel Concrete Adj. at Garage	SW-846 8082A	
2	11H0171-02	Concrete	Spandrel Concrete Adj. at Storefront East	SW-846 8082A	
3	11H0171-03	Concrete	Spandrel Concrete Adj. at Storefront North	SW-846 8082A	
4	11H0171-04	Concrete	Pave Concrete Adj. at Storefront West	SW-846 8082A	
5	11H0171-05	Concrete	Pave Concrete Adj. at Storefront East	SW-846 8082A	
6	11H0171-06	Concrete	Base Concrete Adj. at Storefront North	SW-846 8082A	
7	11H0171-07	Concrete	Column Concrete Adj. at Storefront North	SW-846 8082A	
9	11H0171-08	Concrete	Column Concrete Adj. at Storefront East	SW-846 8082A	
11	11H0171-09	Concrete	Column Concrete Adj. at Garage	SW-846 8082A	
13	11H0171-10	Concrete	Base Concrete Adj. at Garage	SW-846 8082A	
14	11H0171-11	Concrete	Spandrel Concrete Adj. at Storefront East	SW-846 8082A	
12A	11H0171-12	Caulk	Int. Wind Caulk	SW-846 8082A	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

SW-846 8082A

Qualifications:

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Samples(s) Qualified:

Decachlorobiphenyl, Decachlorobiphenyl [2C], Tetrachloro-m-xylene, Tetrachloro-m-xylene [2C]

11H0171-06[6], 11H0171-07[7], 11H0171-12[12A]

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Daren J. Damboragian
Laboratory Manager

Project Location: 168 Western Ave, Allston

Sample Description: Spandrel Concrete Adj. at Garage

Work Order: 11H0171

Date Received: 8/4/2011

Field Sample #: 1

Sampled: 8/3/2011 09:00

Sample ID: 11H0171-01

Sample Matrix: Concrete

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/4/11	8/8/11 11:47	PJG
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/4/11	8/8/11 11:47	PJG
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/4/11	8/8/11 11:47	PJG
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/4/11	8/8/11 11:47	PJG
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/4/11	8/8/11 11:47	PJG
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/4/11	8/8/11 11:47	PJG
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/4/11	8/8/11 11:47	PJG
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/4/11	8/8/11 11:47	PJG
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/4/11	8/8/11 11:47	PJG
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	93.0	30-150							
Decachlorobiphenyl [2]	98.2	30-150							
Tetrachloro-m-xylene [1]	102	30-150							
Tetrachloro-m-xylene [2]	103	30-150							

Project Location: 168 Western Ave, Allston

Sample Description: Spandrel Concrete Adj. at Storefront E

Work Order: 11H0171

Date Received: 8/4/2011

Field Sample #: 2

Sampled: 8/3/2011 09:30

Sample ID: 11H0171-02

Sample Matrix: Concrete

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.9	mg/Kg	20		SW-846 8082A	8/4/11	8/8/11 16:46	PJG
Aroclor-1221 [1]	ND	1.9	mg/Kg	20		SW-846 8082A	8/4/11	8/8/11 16:46	PJG
Aroclor-1232 [1]	ND	1.9	mg/Kg	20		SW-846 8082A	8/4/11	8/8/11 16:46	PJG
Aroclor-1242 [2]	20	1.9	mg/Kg	20		SW-846 8082A	8/4/11	8/8/11 16:46	PJG
Aroclor-1248 [1]	ND	1.9	mg/Kg	20		SW-846 8082A	8/4/11	8/8/11 16:46	PJG
Aroclor-1254 [2]	10	1.9	mg/Kg	20		SW-846 8082A	8/4/11	8/8/11 16:46	PJG
Aroclor-1260 [1]	ND	1.9	mg/Kg	20		SW-846 8082A	8/4/11	8/8/11 16:46	PJG
Aroclor-1262 [1]	ND	1.9	mg/Kg	20		SW-846 8082A	8/4/11	8/8/11 16:46	PJG
Aroclor-1268 [1]	ND	1.9	mg/Kg	20		SW-846 8082A	8/4/11	8/8/11 16:46	PJG
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	97.4	30-150							
Decachlorobiphenyl [2]	102	30-150							
Tetrachloro-m-xylene [1]	91.8	30-150							
Tetrachloro-m-xylene [2]	107	30-150							

Project Location: 168 Western Ave, Allston

Sample Description: Spandrel Concrete Adj. at Storefront N

Work Order: 11H0171

Date Received: 8/4/2011

Field Sample #: 3

Sampled: 8/3/2011 10:00

Sample ID: 11H0171-03

Sample Matrix: Concrete

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.91	mg/Kg	10		SW-846 8082A	8/4/11	8/8/11 16:58	PJG
Aroclor-1221 [1]	ND	0.91	mg/Kg	10		SW-846 8082A	8/4/11	8/8/11 16:58	PJG
Aroclor-1232 [1]	ND	0.91	mg/Kg	10		SW-846 8082A	8/4/11	8/8/11 16:58	PJG
Aroclor-1242 [2]	4.1	0.91	mg/Kg	10		SW-846 8082A	8/4/11	8/8/11 16:58	PJG
Aroclor-1248 [1]	ND	0.91	mg/Kg	10		SW-846 8082A	8/4/11	8/8/11 16:58	PJG
Aroclor-1254 [2]	8.4	0.91	mg/Kg	10		SW-846 8082A	8/4/11	8/8/11 16:58	PJG
Aroclor-1260 [1]	ND	0.91	mg/Kg	10		SW-846 8082A	8/4/11	8/8/11 16:58	PJG
Aroclor-1262 [1]	ND	0.91	mg/Kg	10		SW-846 8082A	8/4/11	8/8/11 16:58	PJG
Aroclor-1268 [1]	ND	0.91	mg/Kg	10		SW-846 8082A	8/4/11	8/8/11 16:58	PJG
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	79.0	30-150						8/8/11 16:58	
Decachlorobiphenyl [2]	87.6	30-150						8/8/11 16:58	
Tetrachloro-m-xylene [1]	88.1	30-150						8/8/11 16:58	
Tetrachloro-m-xylene [2]	98.3	30-150						8/8/11 16:58	

Project Location: 168 Western Ave, Allston

Sample Description: Pave Concrete Adj. at Storefront West

Work Order: 11H0171

Date Received: 8/4/2011

Field Sample #: 4

Sampled: 8/3/2011 10:30

Sample ID: 11H0171-04

Sample Matrix: Concrete

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/4/11	8/8/11 14:50	PJG
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/4/11	8/8/11 14:50	PJG
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/4/11	8/8/11 14:50	PJG
Aroclor-1242 [2]	0.78	0.10	mg/Kg	1		SW-846 8082A	8/4/11	8/8/11 14:50	PJG
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/4/11	8/8/11 14:50	PJG
Aroclor-1254 [2]	0.27	0.10	mg/Kg	1		SW-846 8082A	8/4/11	8/8/11 14:50	PJG
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/4/11	8/8/11 14:50	PJG
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/4/11	8/8/11 14:50	PJG
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/4/11	8/8/11 14:50	PJG
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	79.0	30-150							
Decachlorobiphenyl [2]	84.1	30-150							
Tetrachloro-m-xylene [1]	80.0	30-150							
Tetrachloro-m-xylene [2]	82.3	30-150							

Project Location: 168 Western Ave, Allston

Sample Description: Pave Concrete Adj. at Storefront East

Work Order: 11H0171

Date Received: 8/4/2011

Field Sample #: 5

Sampled: 8/3/2011 11:00

Sample ID: 11H0171-05

Sample Matrix: Concrete

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.9	mg/Kg	20		SW-846 8082A	8/4/11	8/8/11 15:03	PJG
Aroclor-1221 [1]	ND	1.9	mg/Kg	20		SW-846 8082A	8/4/11	8/8/11 15:03	PJG
Aroclor-1232 [1]	ND	1.9	mg/Kg	20		SW-846 8082A	8/4/11	8/8/11 15:03	PJG
Aroclor-1242 [1]	ND	1.9	mg/Kg	20		SW-846 8082A	8/4/11	8/8/11 15:03	PJG
Aroclor-1248 [1]	ND	1.9	mg/Kg	20		SW-846 8082A	8/4/11	8/8/11 15:03	PJG
Aroclor-1254 [2]	8.1	1.9	mg/Kg	20		SW-846 8082A	8/4/11	8/8/11 15:03	PJG
Aroclor-1260 [1]	ND	1.9	mg/Kg	20		SW-846 8082A	8/4/11	8/8/11 15:03	PJG
Aroclor-1262 [1]	ND	1.9	mg/Kg	20		SW-846 8082A	8/4/11	8/8/11 15:03	PJG
Aroclor-1268 [1]	ND	1.9	mg/Kg	20		SW-846 8082A	8/4/11	8/8/11 15:03	PJG
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	110	30-150						8/8/11 15:03	
Decachlorobiphenyl [2]	115	30-150						8/8/11 15:03	
Tetrachloro-m-xylene [1]	105	30-150						8/8/11 15:03	
Tetrachloro-m-xylene [2]	124	30-150						8/8/11 15:03	

Project Location: 168 Western Ave, Allston

Sample Description: Base Concrete Adj. at Storefront North

Work Order: 11H0171

Date Received: 8/4/2011

Field Sample #: 6

Sampled: 8/3/2011 11:30

Sample ID: 11H0171-06

Sample Matrix: Concrete

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	4.0	mg/Kg	40		SW-846 8082A	8/4/11	8/8/11 17:11	PJG
Aroclor-1221 [1]	ND	4.0	mg/Kg	40		SW-846 8082A	8/4/11	8/8/11 17:11	PJG
Aroclor-1232 [1]	ND	4.0	mg/Kg	40		SW-846 8082A	8/4/11	8/8/11 17:11	PJG
Aroclor-1242 [2]	12	4.0	mg/Kg	40		SW-846 8082A	8/4/11	8/8/11 17:11	PJG
Aroclor-1248 [1]	ND	4.0	mg/Kg	40		SW-846 8082A	8/4/11	8/8/11 17:11	PJG
Aroclor-1254 [2]	33	4.0	mg/Kg	40		SW-846 8082A	8/4/11	8/8/11 17:11	PJG
Aroclor-1260 [1]	ND	4.0	mg/Kg	40		SW-846 8082A	8/4/11	8/8/11 17:11	PJG
Aroclor-1262 [1]	ND	4.0	mg/Kg	40		SW-846 8082A	8/4/11	8/8/11 17:11	PJG
Aroclor-1268 [1]	ND	4.0	mg/Kg	40		SW-846 8082A	8/4/11	8/8/11 17:11	PJG
Surrogates	% Recovery	Recovery Limits			Flag				
Decachlorobiphenyl [1]	*	30-150			S-01			8/8/11 17:11	
Decachlorobiphenyl [2]	*	30-150			S-01			8/8/11 17:11	
Tetrachloro-m-xylene [1]	*	30-150			S-01			8/8/11 17:11	
Tetrachloro-m-xylene [2]	*	30-150			S-01			8/8/11 17:11	

Project Location: 168 Western Ave, Allston

Sample Description: Column Concrete Adj. at Storefront No

Work Order: 11H0171

Date Received: 8/4/2011

Field Sample #: 7

Sampled: 8/3/2011 12:00

Sample ID: 11H0171-07

Sample Matrix: Concrete

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	9.1	mg/Kg	100		SW-846 8082A	8/4/11	8/8/11 17:24	PJG
Aroclor-1221 [1]	ND	9.1	mg/Kg	100		SW-846 8082A	8/4/11	8/8/11 17:24	PJG
Aroclor-1232 [1]	ND	9.1	mg/Kg	100		SW-846 8082A	8/4/11	8/8/11 17:24	PJG
Aroclor-1242 [1]	ND	9.1	mg/Kg	100		SW-846 8082A	8/4/11	8/8/11 17:24	PJG
Aroclor-1248 [1]	ND	9.1	mg/Kg	100		SW-846 8082A	8/4/11	8/8/11 17:24	PJG
Aroclor-1254 [1]	40	9.1	mg/Kg	100		SW-846 8082A	8/4/11	8/8/11 17:24	PJG
Aroclor-1260 [1]	ND	9.1	mg/Kg	100		SW-846 8082A	8/4/11	8/8/11 17:24	PJG
Aroclor-1262 [1]	ND	9.1	mg/Kg	100		SW-846 8082A	8/4/11	8/8/11 17:24	PJG
Aroclor-1268 [1]	ND	9.1	mg/Kg	100		SW-846 8082A	8/4/11	8/8/11 17:24	PJG
Surrogates	% Recovery	Recovery Limits			Flag				
Decachlorobiphenyl [1]	*	30-150			S-01			8/8/11 17:24	
Decachlorobiphenyl [2]	*	30-150			S-01			8/8/11 17:24	
Tetrachloro-m-xylene [1]	*	30-150			S-01			8/8/11 17:24	
Tetrachloro-m-xylene [2]	*	30-150			S-01			8/8/11 17:24	

Project Location: 168 Western Ave, Allston

Sample Description: Column Concrete Adj. at Storefront Ea

Work Order: 11H0171

Date Received: 8/4/2011

Field Sample #: 9

Sampled: 8/3/2011 12:30

Sample ID: 11H0171-08

Sample Matrix: Concrete

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	2.0	mg/Kg	20		SW-846 8082A	8/4/11	8/8/11 15:42	PJG
Aroclor-1221 [1]	ND	2.0	mg/Kg	20		SW-846 8082A	8/4/11	8/8/11 15:42	PJG
Aroclor-1232 [1]	ND	2.0	mg/Kg	20		SW-846 8082A	8/4/11	8/8/11 15:42	PJG
Aroclor-1242 [1]	ND	2.0	mg/Kg	20		SW-846 8082A	8/4/11	8/8/11 15:42	PJG
Aroclor-1248 [1]	ND	2.0	mg/Kg	20		SW-846 8082A	8/4/11	8/8/11 15:42	PJG
Aroclor-1254 [2]	5.2	2.0	mg/Kg	20		SW-846 8082A	8/4/11	8/8/11 15:42	PJG
Aroclor-1260 [1]	ND	2.0	mg/Kg	20		SW-846 8082A	8/4/11	8/8/11 15:42	PJG
Aroclor-1262 [1]	ND	2.0	mg/Kg	20		SW-846 8082A	8/4/11	8/8/11 15:42	PJG
Aroclor-1268 [1]	ND	2.0	mg/Kg	20		SW-846 8082A	8/4/11	8/8/11 15:42	PJG
Surrogates	% Recovery		Recovery Limits		Flag				
Decachlorobiphenyl [1]	112		30-150				8/8/11 15:42		
Decachlorobiphenyl [2]	102		30-150				8/8/11 15:42		
Tetrachloro-m-xylene [1]	71.2		30-150				8/8/11 15:42		
Tetrachloro-m-xylene [2]	83.9		30-150				8/8/11 15:42		

Project Location: 168 Western Ave, Allston

Sample Description: Column Concrete Adj. at Garage

Work Order: 11H0171

Date Received: 8/4/2011

Field Sample #: 11

Sampled: 8/3/2011 13:00

Sample ID: 11H0171-09

Sample Matrix: Concrete

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.43	mg/Kg	5		SW-846 8082A	8/4/11	8/8/11 17:37	PJG
Aroclor-1221 [1]	ND	0.43	mg/Kg	5		SW-846 8082A	8/4/11	8/8/11 17:37	PJG
Aroclor-1232 [1]	ND	0.43	mg/Kg	5		SW-846 8082A	8/4/11	8/8/11 17:37	PJG
Aroclor-1242 [1]	ND	0.43	mg/Kg	5		SW-846 8082A	8/4/11	8/8/11 17:37	PJG
Aroclor-1248 [1]	ND	0.43	mg/Kg	5		SW-846 8082A	8/4/11	8/8/11 17:37	PJG
Aroclor-1254 [2]	0.91	0.43	mg/Kg	5		SW-846 8082A	8/4/11	8/8/11 17:37	PJG
Aroclor-1260 [1]	ND	0.43	mg/Kg	5		SW-846 8082A	8/4/11	8/8/11 17:37	PJG
Aroclor-1262 [1]	ND	0.43	mg/Kg	5		SW-846 8082A	8/4/11	8/8/11 17:37	PJG
Aroclor-1268 [1]	ND	0.43	mg/Kg	5		SW-846 8082A	8/4/11	8/8/11 17:37	PJG
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	101	30-150							
Decachlorobiphenyl [2]	102	30-150							
Tetrachloro-m-xylene [1]	97.5	30-150							
Tetrachloro-m-xylene [2]	108	30-150							

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Project Location: 168 Western Ave, Allston

Sample Description: Base Concrete Adj. at Garage

Work Order: 11H0171

Date Received: 8/4/2011

Field Sample #: 13

Sampled: 8/3/2011 13:30

Sample ID: 11H0171-10

Sample Matrix: Concrete

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	2.0	mg/Kg	20		SW-846 8082A	8/4/11	8/8/11 16:07	PJG
Aroclor-1221 [1]	ND	2.0	mg/Kg	20		SW-846 8082A	8/4/11	8/8/11 16:07	PJG
Aroclor-1232 [1]	ND	2.0	mg/Kg	20		SW-846 8082A	8/4/11	8/8/11 16:07	PJG
Aroclor-1242 [2]	4.0	2.0	mg/Kg	20		SW-846 8082A	8/4/11	8/8/11 16:07	PJG
Aroclor-1248 [1]	ND	2.0	mg/Kg	20		SW-846 8082A	8/4/11	8/8/11 16:07	PJG
Aroclor-1254 [2]	21	2.0	mg/Kg	20		SW-846 8082A	8/4/11	8/8/11 16:07	PJG
Aroclor-1260 [1]	ND	2.0	mg/Kg	20		SW-846 8082A	8/4/11	8/8/11 16:07	PJG
Aroclor-1262 [1]	ND	2.0	mg/Kg	20		SW-846 8082A	8/4/11	8/8/11 16:07	PJG
Aroclor-1268 [1]	ND	2.0	mg/Kg	20		SW-846 8082A	8/4/11	8/8/11 16:07	PJG
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	102	30-150						8/8/11 16:07	
Decachlorobiphenyl [2]	113	30-150						8/8/11 16:07	
Tetrachloro-m-xylene [1]	100	30-150						8/8/11 16:07	
Tetrachloro-m-xylene [2]	116	30-150						8/8/11 16:07	

Project Location: 168 Western Ave, Allston

Sample Description: Spandrel Concrete Adj. at Storefront E

Work Order: 11H0171

Date Received: 8/4/2011

Field Sample #: 14

Sampled: 8/3/2011 14:00

Sample ID: 11H0171-11

Sample Matrix: Concrete

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.9	mg/Kg	20		SW-846 8082A	8/4/11	8/8/11 16:20	PJG
Aroclor-1221 [1]	ND	1.9	mg/Kg	20		SW-846 8082A	8/4/11	8/8/11 16:20	PJG
Aroclor-1232 [1]	ND	1.9	mg/Kg	20		SW-846 8082A	8/4/11	8/8/11 16:20	PJG
Aroclor-1242 [1]	ND	1.9	mg/Kg	20		SW-846 8082A	8/4/11	8/8/11 16:20	PJG
Aroclor-1248 [1]	ND	1.9	mg/Kg	20		SW-846 8082A	8/4/11	8/8/11 16:20	PJG
Aroclor-1254 [2]	11	1.9	mg/Kg	20		SW-846 8082A	8/4/11	8/8/11 16:20	PJG
Aroclor-1260 [1]	ND	1.9	mg/Kg	20		SW-846 8082A	8/4/11	8/8/11 16:20	PJG
Aroclor-1262 [1]	ND	1.9	mg/Kg	20		SW-846 8082A	8/4/11	8/8/11 16:20	PJG
Aroclor-1268 [1]	ND	1.9	mg/Kg	20		SW-846 8082A	8/4/11	8/8/11 16:20	PJG
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	93.2	30-150						8/8/11 16:20	
Decachlorobiphenyl [2]	109	30-150						8/8/11 16:20	
Tetrachloro-m-xylene [1]	97.1	30-150						8/8/11 16:20	
Tetrachloro-m-xylene [2]	114	30-150						8/8/11 16:20	

Project Location: 168 Western Ave, Allston

Sample Description: Int. Wind Caulk

Work Order: 11H0171

Date Received: 8/4/2011

Field Sample #: 12A

Sampled: 8/3/2011 14:30

Sample ID: 11H0171-12

Sample Matrix: Caulk

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	2000	mg/Kg	10000		SW-846 8082A	8/4/11	8/10/11 17:02	PJG
Aroclor-1221 [1]	ND	2000	mg/Kg	10000		SW-846 8082A	8/4/11	8/10/11 17:02	PJG
Aroclor-1232 [1]	ND	2000	mg/Kg	10000		SW-846 8082A	8/4/11	8/10/11 17:02	PJG
Aroclor-1242 [1]	ND	2000	mg/Kg	10000		SW-846 8082A	8/4/11	8/10/11 17:02	PJG
Aroclor-1248 [1]	7600	2000	mg/Kg	10000		SW-846 8082A	8/4/11	8/10/11 17:02	PJG
Aroclor-1254 [2]	28000	2000	mg/Kg	10000		SW-846 8082A	8/4/11	8/10/11 17:02	PJG
Aroclor-1260 [1]	ND	2000	mg/Kg	10000		SW-846 8082A	8/4/11	8/10/11 17:02	PJG
Aroclor-1262 [1]	ND	2000	mg/Kg	10000		SW-846 8082A	8/4/11	8/10/11 17:02	PJG
Aroclor-1268 [1]	ND	2000	mg/Kg	10000		SW-846 8082A	8/4/11	8/10/11 17:02	PJG
Surrogates	% Recovery	Recovery Limits			Flag				
Decachlorobiphenyl [1]	*	30-150			S-01			8/10/11 17:02	
Decachlorobiphenyl [2]	*	30-150			S-01			8/10/11 17:02	
Tetrachloro-m-xylene [1]	*	30-150			S-01			8/10/11 17:02	
Tetrachloro-m-xylene [2]	*	30-150			S-01			8/10/11 17:02	

Sample Extraction Data**Prep Method: SW-846 3540C-SW-846 8082A**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
11H0171-12 [12A]	B034912	0.500	10.0	08/04/11

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
11H0171-01 [1]	B034905	2.00	10.0	08/04/11
11H0171-02 [2]	B034905	2.10	10.0	08/04/11
11H0171-03 [3]	B034905	2.20	10.0	08/04/11
11H0171-04 [4]	B034905	2.00	10.0	08/04/11
11H0171-05 [5]	B034905	2.10	10.0	08/04/11
11H0171-06 [6]	B034905	2.00	10.0	08/04/11
11H0171-07 [7]	B034905	2.20	10.0	08/04/11
11H0171-08 [9]	B034905	2.00	10.0	08/04/11
11H0171-09 [11]	B034905	2.30	10.0	08/04/11
11H0171-10 [13]	B034905	2.00	10.0	08/04/11
11H0171-11 [14]	B034905	2.10	10.0	08/04/11

QUALITY CONTROL
Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B034905 - SW-846 3540C
Blank (B034905-BLK1)

Prepared: 08/04/11 Analyzed: 08/08/11

Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	0.855		mg/Kg	1.00		85.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.916		mg/Kg	1.00		91.6	30-150			
Surrogate: Tetrachloro-m-xylene	0.993		mg/Kg	1.00		99.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.01		mg/Kg	1.00		101	30-150			

LCS (B034905-BS1)

Prepared: 08/04/11 Analyzed: 08/08/11

Aroclor-1016	0.26	0.10	mg/Kg	0.250		104	40-140			
Aroclor-1016 [2C]	0.29	0.10	mg/Kg	0.250		117	40-140			
Aroclor-1260	0.25	0.10	mg/Kg	0.250		102	40-140			
Aroclor-1260 [2C]	0.29	0.10	mg/Kg	0.250		117	40-140			
Surrogate: Decachlorobiphenyl	0.947		mg/Kg	1.00		94.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.02		mg/Kg	1.00		102	30-150			
Surrogate: Tetrachloro-m-xylene	0.998		mg/Kg	1.00		99.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.03		mg/Kg	1.00		103	30-150			

LCS Dup (B034905-BSD1)

Prepared: 08/04/11 Analyzed: 08/08/11

Aroclor-1016	0.25	0.10	mg/Kg	0.250		100	40-140	4.22	30	
Aroclor-1016 [2C]	0.30	0.10	mg/Kg	0.250		119	40-140	1.42	30	
Aroclor-1260	0.25	0.10	mg/Kg	0.250		102	40-140	0.122	30	
Aroclor-1260 [2C]	0.29	0.10	mg/Kg	0.250		117	40-140	0.143	30	
Surrogate: Decachlorobiphenyl	0.931		mg/Kg	1.00		93.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.995		mg/Kg	1.00		99.5	30-150			
Surrogate: Tetrachloro-m-xylene	1.02		mg/Kg	1.00		102	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.03		mg/Kg	1.00		103	30-150			

QUALITY CONTROL
Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B034912 - SW-846 3540C
Blank (B034912-BLK1)

Prepared: 08/04/11 Analyzed: 08/10/11

Aroclor-1016	ND	0.20	mg/Kg							
Aroclor-1016 [2C]	ND	0.20	mg/Kg							
Aroclor-1221	ND	0.20	mg/Kg							
Aroclor-1221 [2C]	ND	0.20	mg/Kg							
Aroclor-1232	ND	0.20	mg/Kg							
Aroclor-1232 [2C]	ND	0.20	mg/Kg							
Aroclor-1242	ND	0.20	mg/Kg							
Aroclor-1242 [2C]	ND	0.20	mg/Kg							
Aroclor-1248	ND	0.20	mg/Kg							
Aroclor-1248 [2C]	ND	0.20	mg/Kg							
Aroclor-1254	ND	0.20	mg/Kg							
Aroclor-1254 [2C]	ND	0.20	mg/Kg							
Aroclor-1260	ND	0.20	mg/Kg							
Aroclor-1260 [2C]	ND	0.20	mg/Kg							
Aroclor-1262	ND	0.20	mg/Kg							
Aroclor-1262 [2C]	ND	0.20	mg/Kg							
Aroclor-1268	ND	0.20	mg/Kg							
Aroclor-1268 [2C]	ND	0.20	mg/Kg							
Surrogate: Decachlorobiphenyl	4.17		mg/Kg	4.00		104	30-150			
Surrogate: Decachlorobiphenyl [2C]	4.22		mg/Kg	4.00		105	30-150			
Surrogate: Tetrachloro-m-xylene	3.54		mg/Kg	4.00		88.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	3.62		mg/Kg	4.00		90.5	30-150			

LCS (B034912-BS1)

Prepared: 08/04/11 Analyzed: 08/10/11

Aroclor-1016	3.7	0.20	mg/Kg	4.00		93.6	40-140			
Aroclor-1016 [2C]	4.0	0.20	mg/Kg	4.00		99.9	40-140			
Aroclor-1260	4.0	0.20	mg/Kg	4.00		99.4	40-140			
Aroclor-1260 [2C]	4.2	0.20	mg/Kg	4.00		105	40-140			
Surrogate: Decachlorobiphenyl	4.51		mg/Kg	4.00		113	30-150			
Surrogate: Decachlorobiphenyl [2C]	4.64		mg/Kg	4.00		116	30-150			
Surrogate: Tetrachloro-m-xylene	3.81		mg/Kg	4.00		95.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	4.01		mg/Kg	4.00		100	30-150			

LCS Dup (B034912-BSD1)

Prepared: 08/04/11 Analyzed: 08/10/11

Aroclor-1016	3.5	0.20	mg/Kg	4.00		88.7	40-140	5.42	30	
Aroclor-1016 [2C]	3.9	0.20	mg/Kg	4.00		98.2	40-140	1.68	30	
Aroclor-1260	3.7	0.20	mg/Kg	4.00		93.4	40-140	6.20	30	
Aroclor-1260 [2C]	4.0	0.20	mg/Kg	4.00		101	40-140	4.59	30	
Surrogate: Decachlorobiphenyl	4.21		mg/Kg	4.00		105	30-150			
Surrogate: Decachlorobiphenyl [2C]	4.39		mg/Kg	4.00		110	30-150			
Surrogate: Tetrachloro-m-xylene	3.68		mg/Kg	4.00		92.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	3.93		mg/Kg	4.00		98.2	30-150			

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8082A in Product/Solid</i>	
Aroclor-1016	CT,NH,NY,ME,NC
Aroclor-1016 [2C]	CT,NH,NY,ME,NC
Aroclor-1221	CT,NH,NY,ME,NC
Aroclor-1221 [2C]	CT,NH,NY,ME,NC
Aroclor-1232	CT,NH,NY,ME,NC
Aroclor-1232 [2C]	CT,NH,NY,ME,NC
Aroclor-1242	CT,NH,NY,ME,NC
Aroclor-1242 [2C]	CT,NH,NY,ME,NC
Aroclor-1248	CT,NH,NY,ME,NC
Aroclor-1248 [2C]	CT,NH,NY,ME,NC
Aroclor-1254	CT,NH,NY,ME,NC
Aroclor-1254 [2C]	CT,NH,NY,ME,NC
Aroclor-1260	CT,NH,NY,ME,NC
Aroclor-1260 [2C]	CT,NH,NY,ME,NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	American Industrial Hygiene Association	100033	01/1/2012
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Public Health	PH-0567	09/30/2011
NY	New York State Department of Health	10899 NELAP	04/1/2012
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2012
RI	Rhode Island Department of Health	LAO00112	12/30/2011
NC	North Carolina Div. of Water Quality	652	12/31/2011
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2012
ME	State of Maine	2011028	06/9/2013



Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 SPRUCE ST, 2ND FLOOR
EAST LONGMEADOW, MA 01028

Page 2 of 2

Company Name: ATC
Address: _____
Telephone: (978) 404-1419

Project # _____
Client PO # _____

Attention: _____

Project Location: 168 Webster Ave, Austin

Sampled By: J-PERACAL

Proposal Provided? (For Billing purposes) ☐ yes ☒ no

State Form Required? ☐ yes ☒ no

DATA DELIVERY (check one):
☐ FAX ☒ EMAIL ☐ WEBSITE CLIENT
Fax # : _____
Email: jean.peracal@contestlabs.com
Format: ☒ EXCEL ☐ PDF ☐ GIS KEY

Date Sampled: ☐ OTHER

Field ID	Sample Description	Lab #	Start Date/Time	Stop Date/Time	Comp- osite	Grab	*Matrix Conc. Code Code	ANALYSIS REQUESTED
9	CONCRETE - FLOOR (SAMPLES)		5/3/11	1:00			0 0	
10	CONCRETE - FLOOR (SAMPLES)			1:30			0 0	
11	CONCRETE - FLOOR (SAMPLES)			2:00			0 0	
12	CONCRETE - FLOOR (SAMPLES)			2:30			0 0	
13	CONCRETE - FLOOR (SAMPLES)			2:30			0 0	
14	CONCRETE - FLOOR (SAMPLES)			2:30			0 0	
15	CONCRETE - FLOOR (SAMPLES)			2:30			0 0	
16	CONCRETE - FLOOR (SAMPLES)			2:30			0 0	
17	CONCRETE - FLOOR (SAMPLES)			2:30			0 0	
18	CONCRETE - FLOOR (SAMPLES)			2:30			0 0	
19	CONCRETE - FLOOR (SAMPLES)			2:30			0 0	
20	CONCRETE - FLOOR (SAMPLES)			2:30			0 0	
21	CONCRETE - FLOOR (SAMPLES)			2:30			0 0	
22	CONCRETE - FLOOR (SAMPLES)			2:30			0 0	
23	CONCRETE - FLOOR (SAMPLES)			2:30			0 0	
24	CONCRETE - FLOOR (SAMPLES)			2:30			0 0	
25	CONCRETE - FLOOR (SAMPLES)			2:30			0 0	
26	CONCRETE - FLOOR (SAMPLES)			2:30			0 0	
27	CONCRETE - FLOOR (SAMPLES)			2:30			0 0	
28	CONCRETE - FLOOR (SAMPLES)			2:30			0 0	
29	CONCRETE - FLOOR (SAMPLES)			2:30			0 0	
30	CONCRETE - FLOOR (SAMPLES)			2:30			0 0	
31	CONCRETE - FLOOR (SAMPLES)			2:30			0 0	
32	CONCRETE - FLOOR (SAMPLES)			2:30			0 0	
33	CONCRETE - FLOOR (SAMPLES)			2:30			0 0	
34	CONCRETE - FLOOR (SAMPLES)			2:30			0 0	
35	CONCRETE - FLOOR (SAMPLES)			2:30			0 0	
36	CONCRETE - FLOOR (SAMPLES)			2:30			0 0	
37	CONCRETE - FLOOR (SAMPLES)			2:30			0 0	
38	CONCRETE - FLOOR (SAMPLES)			2:30			0 0	
39	CONCRETE - FLOOR (SAMPLES)			2:30			0 0	
40	CONCRETE - FLOOR (SAMPLES)			2:30			0 0	
41	CONCRETE - FLOOR (SAMPLES)			2:30			0 0	
42	CONCRETE - FLOOR (SAMPLES)			2:30			0 0	
43	CONCRETE - FLOOR (SAMPLES)			2:30			0 0	
44	CONCRETE - FLOOR (SAMPLES)			2:30			0 0	
45	CONCRETE - FLOOR (SAMPLES)			2:30			0 0	
46	CONCRETE - FLOOR (SAMPLES)			2:30			0 0	
47	CONCRETE - FLOOR (SAMPLES)			2:30			0 0	
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49	CONCRETE - FLOOR (SAMPLES)			2:30			0 0	
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52	CONCRETE - FLOOR (SAMPLES)			2:30			0 0	
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64	CONCRETE - FLOOR (SAMPLES)			2:30			0 0	
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71	CONCRETE - FLOOR (SAMPLES)			2:30			0 0	
72	CONCRETE - FLOOR (SAMPLES)			2:30			0 0	
73	CONCRETE - FLOOR (SAMPLES)			2:30			0 0	
74	CONCRETE - FLOOR (SAMPLES)			2:30			0 0	
75	CONCRETE - FLOOR (SAMPLES)			2:30			0 0	
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80	CONCRETE - FLOOR (SAMPLES)			2:30			0 0	
81	CONCRETE - FLOOR (SAMPLES)			2:30			0 0	
82	CONCRETE - FLOOR (SAMPLES)			2:30			0 0	
83	CONCRETE - FLOOR (SAMPLES)			2:30			0 0	
84	CONCRETE - FLOOR (SAMPLES)			2:30			0 0	
85	CONCRETE - FLOOR (SAMPLES)			2:30			0 0	
86	CONCRETE - FLOOR (SAMPLES)			2:30			0 0	
87	CONCRETE - FLOOR (SAMPLES)			2:30			0 0	
88	CONCRETE - FLOOR (SAMPLES)			2:30			0 0	
89	CONCRETE - FLOOR (SAMPLES)			2:30			0 0	
90	CONCRETE - FLOOR (SAMPLES)			2:30			0 0	
91	CONCRETE - FLOOR (SAMPLES)			2:30			0 0	
92	CONCRETE - FLOOR (SAMPLES)			2:30			0 0	
93	CONCRETE - FLOOR (SAMPLES)			2:30			0 0	
94	CONCRETE - FLOOR (SAMPLES)			2:30			0 0	
95	CONCRETE - FLOOR (SAMPLES)			2:30			0 0	
96	CONCRETE - FLOOR (SAMPLES)			2:30			0 0	
97	CONCRETE - FLOOR (SAMPLES)			2:30			0 0	
98	CONCRETE - FLOOR (SAMPLES)			2:30			0 0	
99	CONCRETE - FLOOR (SAMPLES)			2:30			0 0	
100	CONCRETE - FLOOR (SAMPLES)			2:30			0 0	

Laboratory Comments:

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by (signature): <u>[Signature]</u>	Date/Time: <u>5/11/11 10:35</u>	Turnaround **	Detection Limit Requirements
Received by (signature): <u>[Signature]</u>	Date/Time: <u>10:35</u>	<input type="checkbox"/> 7-Day	<input type="checkbox"/> 10-Day
Relinquished by (signature): <u>[Signature]</u>	Date/Time: <u>18:10</u>	<input type="checkbox"/> 24-Hr <input type="checkbox"/> 48-Hr	<input type="checkbox"/> Other
Received by (signature): <u>[Signature]</u>	Date/Time: <u>5/11/11 5:41</u>	<input type="checkbox"/> *72-Hr <input type="checkbox"/> *4-Day	<input type="checkbox"/> RUSH
* Require lab approval		Special Requirements or DL's: _____	

** TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com



Sample Receipt Checklist

CLIENT NAME: ATC RECEIVED BY: SD DATE: 8/4/11

1) Was the chain(s) of custody relinquished and signed? Yes No No CoC Included

2) Does the chain agree with the samples?

If not, explain:

3) Are all the samples in good condition?

If not, explain:

4) How were the samples received:

On Ice ☒ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☒

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 6.4

5) Are there Dissolved samples for the lab to filter?

Yes No

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples?

Yes No

Who was notified _____ Date _____ Time _____

7) Location where samples are stored:

19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	<u>12</u>
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____
Bisulfate _____ # DI Water _____
Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

Do all samples have the proper Acid pH: Yes No N/A

Do all samples have the proper Base pH: Yes No N/A

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Rev. 1 May 2011

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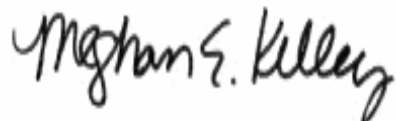
September 11, 2011

Jason Roback
ATC Associates - Woburn
600 W Cummings Park, Suite 5500
Woburn, MA 01801

Project Location: 168 Western, Allston
Client Job Number:
Project Number: 60.21865.0014
Laboratory Work Order Number: 11H1246

Enclosed are results of analyses for samples received by the laboratory on August 31, 2011. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, reading "Meghan E. Kelley". The signature is written in a cursive, flowing style.

Meghan E. Kelley
Project Manager

ATC Associates - Woburn
600 W Cummings Park, Suite 5500
Woburn, MA 01801
ATTN: Jason Roback

REPORT DATE: 9/11/2011

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 60.21865.0014

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 11H1246

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 168 Western, Allston

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
Base A-vert. 1.5 inch -A	11H1246-01	Concrete		SW-846 8082A	
Base A-vert. 1.5 inch -B	11H1246-02	Concrete		SW-846 8082A	
Base-Interior 6 inch -A	11H1246-03	Concrete		SW-846 8082A	
Base-Interior 6 inch -B	11H1246-04	Concrete		SW-846 8082A	
Base B-vert. 1.5 inch -A	11H1246-05	Concrete		SW-846 8082A	
Base B-vert. 1.5 inch -B	11H1246-06	Concrete		SW-846 8082A	
Base C-horiz.. 3 inch -A	11H1246-07	Concrete		SW-846 8082A	
Base C-horiz.. 3 inch -B	11H1246-08	Concrete		SW-846 8082A	
Spandrel interior-9 inch-A	11H1246-09	Concrete		SW-846 8082A	
Spandrel interior-18 inch-A	11H1246-10	Concrete		SW-846 8082A	
Ceiling east - 6 inch	11H1246-11	Concrete		SW-846 8082A	
Ceiling west - 6 inch	11H1246-12	Concrete		SW-846 8082A	
Column D	11H1246-13	Concrete		SW-846 8082A	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

SW-846 8082A

Qualifications:

Matrix spike and/or spike duplicate recovery bias high due to contribution of other Aroclors present in the source sample.


Analyte & Samples(s) Qualified:

Aroclor-1016, Aroclor-1016 [2C], Aroclor-1260, Aroclor-1260 [2C]

B036630-MS1, B036630-MSD1

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Michael A. Erickson
Laboratory Director

Project Location: 168 Western, Allston

Sample Description:

Work Order: 11H1246

Date Received: 8/31/2011

Field Sample #: Base A-vert. 1.5 inch -A

Sampled: 8/30/2011 00:00

Sample ID: 11H1246-01

Sample Matrix: Concrete

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	9/1/11	9/7/11 9:04	JMB
Aroclor-1221 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	9/1/11	9/7/11 9:04	JMB
Aroclor-1232 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	9/1/11	9/7/11 9:04	JMB
Aroclor-1242 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	9/1/11	9/7/11 9:04	JMB
Aroclor-1248 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	9/1/11	9/7/11 9:04	JMB
Aroclor-1254 [2]	3.0	0.50	mg/Kg	5		SW-846 8082A	9/1/11	9/7/11 9:04	JMB
Aroclor-1260 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	9/1/11	9/7/11 9:04	JMB
Aroclor-1262 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	9/1/11	9/7/11 9:04	JMB
Aroclor-1268 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	9/1/11	9/7/11 9:04	JMB
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	99.0	30-150						9/7/11 9:04	
Decachlorobiphenyl [2]	109	30-150						9/7/11 9:04	
Tetrachloro-m-xylene [1]	91.0	30-150						9/7/11 9:04	
Tetrachloro-m-xylene [2]	95.2	30-150						9/7/11 9:04	

Project Location: 168 Western, Allston

Sample Description:

Work Order: 11H1246

Date Received: 8/31/2011

Field Sample #: Base A-vert. 1.5 inch -B

Sampled: 8/30/2011 00:00

Sample ID: 11H1246-02

Sample Matrix: Concrete

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.43	mg/Kg	5		SW-846 8082A	9/1/11	9/7/11 9:18	JMB
Aroclor-1221 [1]	ND	0.43	mg/Kg	5		SW-846 8082A	9/1/11	9/7/11 9:18	JMB
Aroclor-1232 [1]	ND	0.43	mg/Kg	5		SW-846 8082A	9/1/11	9/7/11 9:18	JMB
Aroclor-1242 [1]	ND	0.43	mg/Kg	5		SW-846 8082A	9/1/11	9/7/11 9:18	JMB
Aroclor-1248 [1]	ND	0.43	mg/Kg	5		SW-846 8082A	9/1/11	9/7/11 9:18	JMB
Aroclor-1254 [2]	4.4	0.43	mg/Kg	5		SW-846 8082A	9/1/11	9/7/11 9:18	JMB
Aroclor-1260 [1]	ND	0.43	mg/Kg	5		SW-846 8082A	9/1/11	9/7/11 9:18	JMB
Aroclor-1262 [1]	ND	0.43	mg/Kg	5		SW-846 8082A	9/1/11	9/7/11 9:18	JMB
Aroclor-1268 [1]	ND	0.43	mg/Kg	5		SW-846 8082A	9/1/11	9/7/11 9:18	JMB
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	104	30-150						9/7/11 9:18	
Decachlorobiphenyl [2]	115	30-150						9/7/11 9:18	
Tetrachloro-m-xylene [1]	94.5	30-150						9/7/11 9:18	
Tetrachloro-m-xylene [2]	97.8	30-150						9/7/11 9:18	

Project Location: 168 Western, Allston

Sample Description:

Work Order: 11H1246

Date Received: 8/31/2011

Field Sample #: Base-Interior 6 inch -A

Sampled: 8/30/2011 00:00

Sample ID: 11H1246-03

Sample Matrix: Concrete

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	9/1/11	9/6/11 21:11	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	9/1/11	9/6/11 21:11	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	9/1/11	9/6/11 21:11	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	9/1/11	9/6/11 21:11	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	9/1/11	9/6/11 21:11	JMB
Aroclor-1254 [2]	0.18	0.10	mg/Kg	1		SW-846 8082A	9/1/11	9/6/11 21:11	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	9/1/11	9/6/11 21:11	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	9/1/11	9/6/11 21:11	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	9/1/11	9/6/11 21:11	JMB
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	77.9	30-150						9/6/11 21:11	
Decachlorobiphenyl [2]	84.3	30-150						9/6/11 21:11	
Tetrachloro-m-xylene [1]	81.6	30-150						9/6/11 21:11	
Tetrachloro-m-xylene [2]	82.9	30-150						9/6/11 21:11	

Project Location: 168 Western, Allston

Sample Description:

Work Order: 11H1246

Date Received: 8/31/2011

Field Sample #: Base-Interior 6 inch -B

Sampled: 8/30/2011 00:00

Sample ID: 11H1246-04

Sample Matrix: Concrete

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/1/11	9/7/11 9:32	JMB
Aroclor-1221 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/1/11	9/7/11 9:32	JMB
Aroclor-1232 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/1/11	9/7/11 9:32	JMB
Aroclor-1242 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/1/11	9/7/11 9:32	JMB
Aroclor-1248 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/1/11	9/7/11 9:32	JMB
Aroclor-1254 [1]	11	1.0	mg/Kg	10		SW-846 8082A	9/1/11	9/7/11 9:32	JMB
Aroclor-1260 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/1/11	9/7/11 9:32	JMB
Aroclor-1262 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/1/11	9/7/11 9:32	JMB
Aroclor-1268 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	9/1/11	9/7/11 9:32	JMB
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	94.2	30-150						9/7/11 9:32	
Decachlorobiphenyl [2]	101	30-150						9/7/11 9:32	
Tetrachloro-m-xylene [1]	95.2	30-150						9/7/11 9:32	
Tetrachloro-m-xylene [2]	102	30-150						9/7/11 9:32	

Project Location: 168 Western, Allston

Sample Description:

Work Order: 11H1246

Date Received: 8/31/2011

Field Sample #: Base B-vert. 1.5 inch -A

Sampled: 8/30/2011 00:00

Sample ID: 11H1246-05

Sample Matrix: Concrete

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.95	mg/Kg	10		SW-846 8082A	9/1/11	9/7/11 9:46	JMB
Aroclor-1221 [1]	ND	0.95	mg/Kg	10		SW-846 8082A	9/1/11	9/7/11 9:46	JMB
Aroclor-1232 [1]	ND	0.95	mg/Kg	10		SW-846 8082A	9/1/11	9/7/11 9:46	JMB
Aroclor-1242 [1]	ND	0.95	mg/Kg	10		SW-846 8082A	9/1/11	9/7/11 9:46	JMB
Aroclor-1248 [1]	ND	0.95	mg/Kg	10		SW-846 8082A	9/1/11	9/7/11 9:46	JMB
Aroclor-1254 [2]	5.9	0.95	mg/Kg	10		SW-846 8082A	9/1/11	9/7/11 9:46	JMB
Aroclor-1260 [1]	ND	0.95	mg/Kg	10		SW-846 8082A	9/1/11	9/7/11 9:46	JMB
Aroclor-1262 [1]	ND	0.95	mg/Kg	10		SW-846 8082A	9/1/11	9/7/11 9:46	JMB
Aroclor-1268 [1]	ND	0.95	mg/Kg	10		SW-846 8082A	9/1/11	9/7/11 9:46	JMB
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	102	30-150						9/7/11 9:46	
Decachlorobiphenyl [2]	110	30-150						9/7/11 9:46	
Tetrachloro-m-xylene [1]	95.5	30-150						9/7/11 9:46	
Tetrachloro-m-xylene [2]	101	30-150						9/7/11 9:46	

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Project Location: 168 Western, Allston

Sample Description:

Work Order: 11H1246

Date Received: 8/31/2011

Field Sample #: Base B-vert. 1.5 inch -B

Sampled: 8/30/2011 00:00

Sample ID: 11H1246-06

Sample Matrix: Concrete

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	9/1/11	9/7/11 10:00	JMB
Aroclor-1221 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	9/1/11	9/7/11 10:00	JMB
Aroclor-1232 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	9/1/11	9/7/11 10:00	JMB
Aroclor-1242 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	9/1/11	9/7/11 10:00	JMB
Aroclor-1248 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	9/1/11	9/7/11 10:00	JMB
Aroclor-1254 [2]	3.5	0.45	mg/Kg	5		SW-846 8082A	9/1/11	9/7/11 10:00	JMB
Aroclor-1260 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	9/1/11	9/7/11 10:00	JMB
Aroclor-1262 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	9/1/11	9/7/11 10:00	JMB
Aroclor-1268 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	9/1/11	9/7/11 10:00	JMB
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	101	30-150						9/7/11 10:00	
Decachlorobiphenyl [2]	113	30-150						9/7/11 10:00	
Tetrachloro-m-xylene [1]	98.4	30-150						9/7/11 10:00	
Tetrachloro-m-xylene [2]	102	30-150						9/7/11 10:00	

Project Location: 168 Western, Allston

Sample Description:

Work Order: 11H1246

Date Received: 8/31/2011

Field Sample #: Base C-horiz.. 3 inch -A

Sampled: 8/30/2011 00:00

Sample ID: 11H1246-07

Sample Matrix: Concrete

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.43	mg/Kg	5		SW-846 8082A	9/1/11	9/7/11 14:56	PJG
Aroclor-1221 [1]	ND	0.43	mg/Kg	5		SW-846 8082A	9/1/11	9/7/11 14:56	PJG
Aroclor-1232 [1]	ND	0.43	mg/Kg	5		SW-846 8082A	9/1/11	9/7/11 14:56	PJG
Aroclor-1242 [1]	ND	0.43	mg/Kg	5		SW-846 8082A	9/1/11	9/7/11 14:56	PJG
Aroclor-1248 [1]	ND	0.43	mg/Kg	5		SW-846 8082A	9/1/11	9/7/11 14:56	PJG
Aroclor-1254 [2]	1.7	0.43	mg/Kg	5		SW-846 8082A	9/1/11	9/7/11 14:56	PJG
Aroclor-1260 [1]	ND	0.43	mg/Kg	5		SW-846 8082A	9/1/11	9/7/11 14:56	PJG
Aroclor-1262 [1]	ND	0.43	mg/Kg	5		SW-846 8082A	9/1/11	9/7/11 14:56	PJG
Aroclor-1268 [1]	ND	0.43	mg/Kg	5		SW-846 8082A	9/1/11	9/7/11 14:56	PJG
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	97.7	30-150							
Decachlorobiphenyl [2]	107	30-150							
Tetrachloro-m-xylene [1]	88.6	30-150							
Tetrachloro-m-xylene [2]	91.6	30-150							

Project Location: 168 Western, Allston

Sample Description:

Work Order: 11H1246

Date Received: 8/31/2011

Field Sample #: Base C-horiz.. 3 inch -B

Sampled: 8/30/2011 00:00

Sample ID: 11H1246-08

Sample Matrix: Concrete

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	9/1/11	9/6/11 22:48	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	9/1/11	9/6/11 22:48	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	9/1/11	9/6/11 22:48	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	9/1/11	9/6/11 22:48	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	9/1/11	9/6/11 22:48	JMB
Aroclor-1254 [1]	0.50	0.10	mg/Kg	1		SW-846 8082A	9/1/11	9/6/11 22:48	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	9/1/11	9/6/11 22:48	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	9/1/11	9/6/11 22:48	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	9/1/11	9/6/11 22:48	JMB
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	102	30-150						9/6/11 22:48	
Decachlorobiphenyl [2]	114	30-150						9/6/11 22:48	
Tetrachloro-m-xylene [1]	94.8	30-150						9/6/11 22:48	
Tetrachloro-m-xylene [2]	93.9	30-150						9/6/11 22:48	

Project Location: 168 Western, Allston

Sample Description:

Work Order: 11H1246

Date Received: 8/31/2011

Field Sample #: Spandrel interior-9 inch-A

Sampled: 8/30/2011 00:00

Sample ID: 11H1246-09

Sample Matrix: Concrete

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	9/1/11	9/7/11 10:14	JMB
Aroclor-1221 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	9/1/11	9/7/11 10:14	JMB
Aroclor-1232 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	9/1/11	9/7/11 10:14	JMB
Aroclor-1242 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	9/1/11	9/7/11 10:14	JMB
Aroclor-1248 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	9/1/11	9/7/11 10:14	JMB
Aroclor-1254 [1]	2.1	0.50	mg/Kg	5		SW-846 8082A	9/1/11	9/7/11 10:14	JMB
Aroclor-1260 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	9/1/11	9/7/11 10:14	JMB
Aroclor-1262 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	9/1/11	9/7/11 10:14	JMB
Aroclor-1268 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	9/1/11	9/7/11 10:14	JMB
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	98.3	30-150						9/7/11 10:14	
Decachlorobiphenyl [2]	105	30-150						9/7/11 10:14	
Tetrachloro-m-xylene [1]	92.0	30-150						9/7/11 10:14	
Tetrachloro-m-xylene [2]	96.4	30-150						9/7/11 10:14	

Project Location: 168 Western, Allston

Sample Description:

Work Order: 11H1246

Date Received: 8/31/2011

Field Sample #: Spandrel interior-18 inch-A

Sampled: 8/30/2011 00:00

Sample ID: 11H1246-10

Sample Matrix: Concrete

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	9/1/11	9/7/11 10:28	JMB
Aroclor-1221 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	9/1/11	9/7/11 10:28	JMB
Aroclor-1232 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	9/1/11	9/7/11 10:28	JMB
Aroclor-1242 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	9/1/11	9/7/11 10:28	JMB
Aroclor-1248 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	9/1/11	9/7/11 10:28	JMB
Aroclor-1254 [2]	2.2	0.45	mg/Kg	5		SW-846 8082A	9/1/11	9/7/11 10:28	JMB
Aroclor-1260 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	9/1/11	9/7/11 10:28	JMB
Aroclor-1262 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	9/1/11	9/7/11 10:28	JMB
Aroclor-1268 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	9/1/11	9/7/11 10:28	JMB
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	107	30-150							
Decachlorobiphenyl [2]	114	30-150							
Tetrachloro-m-xylene [1]	98.1	30-150							
Tetrachloro-m-xylene [2]	105	30-150							

Project Location: 168 Western, Allston

Sample Description:

Work Order: 11H1246

Date Received: 8/31/2011

Field Sample #: Ceiling east - 6 inch

Sampled: 8/30/2011 00:00

Sample ID: 11H1246-11

Sample Matrix: Concrete

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	9/1/11	9/7/11 10:42	JMB
Aroclor-1221 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	9/1/11	9/7/11 10:42	JMB
Aroclor-1232 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	9/1/11	9/7/11 10:42	JMB
Aroclor-1242 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	9/1/11	9/7/11 10:42	JMB
Aroclor-1248 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	9/1/11	9/7/11 10:42	JMB
Aroclor-1254 [1]	3.2	0.48	mg/Kg	5		SW-846 8082A	9/1/11	9/7/11 10:42	JMB
Aroclor-1260 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	9/1/11	9/7/11 10:42	JMB
Aroclor-1262 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	9/1/11	9/7/11 10:42	JMB
Aroclor-1268 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	9/1/11	9/7/11 10:42	JMB
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	102	30-150						9/7/11 10:42	
Decachlorobiphenyl [2]	110	30-150						9/7/11 10:42	
Tetrachloro-m-xylene [1]	99.8	30-150						9/7/11 10:42	
Tetrachloro-m-xylene [2]	103	30-150						9/7/11 10:42	

Project Location: 168 Western, Allston

Sample Description:

Work Order: 11H1246

Date Received: 8/31/2011

Field Sample #: Ceiling west - 6 inch

Sampled: 8/30/2011 00:00

Sample ID: 11H1246-12

Sample Matrix: Concrete

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.91	mg/Kg	10		SW-846 8082A	9/7/11	9/8/11 23:39	PJG
Aroclor-1221 [1]	ND	0.91	mg/Kg	10		SW-846 8082A	9/7/11	9/8/11 23:39	PJG
Aroclor-1232 [1]	ND	0.91	mg/Kg	10		SW-846 8082A	9/7/11	9/8/11 23:39	PJG
Aroclor-1242 [1]	ND	0.91	mg/Kg	10		SW-846 8082A	9/7/11	9/8/11 23:39	PJG
Aroclor-1248 [1]	ND	0.91	mg/Kg	10		SW-846 8082A	9/7/11	9/8/11 23:39	PJG
Aroclor-1254 [1]	4.0	0.91	mg/Kg	10		SW-846 8082A	9/7/11	9/8/11 23:39	PJG
Aroclor-1260 [1]	ND	0.91	mg/Kg	10		SW-846 8082A	9/7/11	9/8/11 23:39	PJG
Aroclor-1262 [1]	ND	0.91	mg/Kg	10		SW-846 8082A	9/7/11	9/8/11 23:39	PJG
Aroclor-1268 [1]	ND	0.91	mg/Kg	10		SW-846 8082A	9/7/11	9/8/11 23:39	PJG
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	75.7	30-150						9/8/11 23:39	
Decachlorobiphenyl [2]	83.0	30-150						9/8/11 23:39	
Tetrachloro-m-xylene [1]	93.3	30-150						9/8/11 23:39	
Tetrachloro-m-xylene [2]	102	30-150						9/8/11 23:39	

Project Location: 168 Western, Allston

Sample Description:

Work Order: 11H1246

Date Received: 8/31/2011

Field Sample #: Column D

Sampled: 8/30/2011 00:00

Sample ID: 11H1246-13

Sample Matrix: Concrete

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	9/1/11	9/6/11 23:58	JMB
Aroclor-1221 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	9/1/11	9/6/11 23:58	JMB
Aroclor-1232 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	9/1/11	9/6/11 23:58	JMB
Aroclor-1242 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	9/1/11	9/6/11 23:58	JMB
Aroclor-1248 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	9/1/11	9/6/11 23:58	JMB
Aroclor-1254 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	9/1/11	9/6/11 23:58	JMB
Aroclor-1260 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	9/1/11	9/6/11 23:58	JMB
Aroclor-1262 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	9/1/11	9/6/11 23:58	JMB
Aroclor-1268 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	9/1/11	9/6/11 23:58	JMB
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	93.2	30-150						9/6/11 23:58	
Decachlorobiphenyl [2]	105	30-150						9/6/11 23:58	
Tetrachloro-m-xylene [1]	87.5	30-150						9/6/11 23:58	
Tetrachloro-m-xylene [2]	86.4	30-150						9/6/11 23:58	

Sample Extraction Data**Prep Method: SW-846 3540C-SW-846 8082A**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
11H1246-01 [Base A-vert. 1.5 inch -A]	B036630	2.00	10.0	09/01/11
11H1246-02 [Base A-vert. 1.5 inch -B]	B036630	2.30	10.0	09/01/11
11H1246-03 [Base-Interior 6 inch -A]	B036630	2.00	10.0	09/01/11
11H1246-04 [Base-Interior 6 inch -B]	B036630	2.00	10.0	09/01/11
11H1246-05 [Base B-vert. 1.5 inch -A]	B036630	2.10	10.0	09/01/11
11H1246-06 [Base B-vert. 1.5 inch -B]	B036630	2.20	10.0	09/01/11
11H1246-07 [Base C-horiz. 3 inch -A]	B036630	2.30	10.0	09/01/11
11H1246-08 [Base C-horiz. 3 inch -B]	B036630	2.00	10.0	09/01/11
11H1246-09 [Spandrel interior-9 inch-A]	B036630	2.00	10.0	09/01/11
11H1246-10 [Spandrel interior-18 inch-A]	B036630	2.20	10.0	09/01/11
11H1246-11 [Ceiling east - 6 inch]	B036630	2.10	10.0	09/01/11
11H1246-13 [Column D]	B036630	2.30	10.0	09/01/11

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
11H1246-12RE1 [Ceiling west - 6 inch]	B036870	2.20	10.0	09/07/11

QUALITY CONTROL
Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B036630 - SW-846 3540C
Blank (B036630-BLK1)

Prepared: 09/01/11 Analyzed: 09/06/11

Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	0.940		mg/Kg	1.00		94.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.04		mg/Kg	1.00		104	30-150			
Surrogate: Tetrachloro-m-xylene	0.904		mg/Kg	1.00		90.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.949		mg/Kg	1.00		94.9	30-150			

LCS (B036630-BS1)

Prepared: 09/01/11 Analyzed: 09/06/11

Aroclor-1016	0.25	0.10	mg/Kg	0.250		98.0	40-140			
Aroclor-1016 [2C]	0.29	0.10	mg/Kg	0.250		116	40-140			
Aroclor-1260	0.26	0.10	mg/Kg	0.250		105	40-140			
Aroclor-1260 [2C]	0.25	0.10	mg/Kg	0.250		98.8	40-140			
Surrogate: Decachlorobiphenyl	0.994		mg/Kg	1.00		99.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.10		mg/Kg	1.00		110	30-150			
Surrogate: Tetrachloro-m-xylene	0.927		mg/Kg	1.00		92.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.975		mg/Kg	1.00		97.5	30-150			

LCS Dup (B036630-BSD1)

Prepared: 09/01/11 Analyzed: 09/06/11

Aroclor-1016	0.25	0.10	mg/Kg	0.250		101	40-140	3.11	30	
Aroclor-1016 [2C]	0.28	0.10	mg/Kg	0.250		113	40-140	2.75	30	
Aroclor-1260	0.25	0.10	mg/Kg	0.250		101	40-140	3.18	30	
Aroclor-1260 [2C]	0.25	0.10	mg/Kg	0.250		98.4	40-140	0.444	30	
Surrogate: Decachlorobiphenyl	0.964		mg/Kg	1.00		96.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.07		mg/Kg	1.00		107	30-150			
Surrogate: Tetrachloro-m-xylene	0.847		mg/Kg	1.00		84.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.892		mg/Kg	1.00		89.2	30-150			

QUALITY CONTROL
Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B036630 - SW-846 3540C

Matrix Spike (B036630-MS1)		Source: 11H1246-01		Prepared: 09/01/11 Analyzed: 09/07/11						
Aroclor-1016	0.40	0.091	mg/Kg	0.227	0.0	175	*	40-140		MS-21
Aroclor-1016 [2C]	0.36	0.091	mg/Kg	0.227	0.0	158	*	40-140		MS-21
Aroclor-1260	0.78	0.091	mg/Kg	0.227	0.0	345	*	40-140		MS-21
Aroclor-1260 [2C]	0.77	0.091	mg/Kg	0.227	0.0	339	*	40-140		MS-21
Surrogate: Decachlorobiphenyl	0.888		mg/Kg	0.909		97.6		30-150		
Surrogate: Decachlorobiphenyl [2C]	0.980		mg/Kg	0.909		108		30-150		
Surrogate: Tetrachloro-m-xylene	0.851		mg/Kg	0.909		93.6		30-150		
Surrogate: Tetrachloro-m-xylene [2C]	0.889		mg/Kg	0.909		97.7		30-150		

Matrix Spike Dup (B036630-MSD1)		Source: 11H1246-01		Prepared: 09/01/11 Analyzed: 09/07/11							
Aroclor-1016	0.40	0.087	mg/Kg	0.217	0.0	183	*	40-140	0.364	50	MS-21
Aroclor-1016 [2C]	0.36	0.087	mg/Kg	0.217	0.0	163	*	40-140	1.14	50	MS-21
Aroclor-1260	0.85	0.087	mg/Kg	0.217	0.0	389	*	40-140	7.54	50	MS-21
Aroclor-1260 [2C]	0.86	0.087	mg/Kg	0.217	0.0	393	*	40-140	10.4	50	MS-21
Surrogate: Decachlorobiphenyl	0.904		mg/Kg	0.870		104		30-150			
Surrogate: Decachlorobiphenyl [2C]	0.993		mg/Kg	0.870		114		30-150			
Surrogate: Tetrachloro-m-xylene	0.764		mg/Kg	0.870		87.8		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.795		mg/Kg	0.870		91.4		30-150			

Batch B036870 - SW-846 3540C

Blank (B036870-BLK1)		Prepared: 09/07/11 Analyzed: 09/08/11								
Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	0.991		mg/Kg	1.00		99.1		30-150		
Surrogate: Decachlorobiphenyl [2C]	0.957		mg/Kg	1.00		95.7		30-150		
Surrogate: Tetrachloro-m-xylene	0.966		mg/Kg	1.00		96.6		30-150		
Surrogate: Tetrachloro-m-xylene [2C]	0.956		mg/Kg	1.00		95.6		30-150		

QUALITY CONTROL
Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B036870 - SW-846 3540C
LCS (B036870-BS1)

Prepared: 09/07/11 Analyzed: 09/08/11

Aroclor-1016	0.29	0.10	mg/Kg	0.250		117	40-140			
Aroclor-1016 [2C]	0.27	0.10	mg/Kg	0.250		106	40-140			
Aroclor-1260	0.26	0.10	mg/Kg	0.250		104	40-140			
Aroclor-1260 [2C]	0.24	0.10	mg/Kg	0.250		97.4	40-140			
Surrogate: Decachlorobiphenyl	0.968		mg/Kg	1.00		96.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.936		mg/Kg	1.00		93.6	30-150			
Surrogate: Tetrachloro-m-xylene	0.944		mg/Kg	1.00		94.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.933		mg/Kg	1.00		93.3	30-150			

LCS Dup (B036870-BSD1)

Prepared: 09/07/11 Analyzed: 09/08/11

Aroclor-1016	0.28	0.10	mg/Kg	0.250		111	40-140	4.88	30	
Aroclor-1016 [2C]	0.26	0.10	mg/Kg	0.250		104	40-140	1.87	30	
Aroclor-1260	0.26	0.10	mg/Kg	0.250		104	40-140	0.124	30	
Aroclor-1260 [2C]	0.24	0.10	mg/Kg	0.250		94.8	40-140	2.73	30	
Surrogate: Decachlorobiphenyl	0.944		mg/Kg	1.00		94.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.913		mg/Kg	1.00		91.3	30-150			
Surrogate: Tetrachloro-m-xylene	0.888		mg/Kg	1.00		88.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.876		mg/Kg	1.00		87.6	30-150			

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
MS-21	Matrix spike and/or spike duplicate recovery bias high due to contribution of other Aroclors present in the source sample.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8082A in Product/Solid</i>	
Aroclor-1016	CT,NH,NY,ME,NC
Aroclor-1016 [2C]	CT,NH,NY,ME,NC
Aroclor-1221	CT,NH,NY,ME,NC
Aroclor-1221 [2C]	CT,NH,NY,ME,NC
Aroclor-1232	CT,NH,NY,ME,NC
Aroclor-1232 [2C]	CT,NH,NY,ME,NC
Aroclor-1242	CT,NH,NY,ME,NC
Aroclor-1242 [2C]	CT,NH,NY,ME,NC
Aroclor-1248	CT,NH,NY,ME,NC
Aroclor-1248 [2C]	CT,NH,NY,ME,NC
Aroclor-1254	CT,NH,NY,ME,NC
Aroclor-1254 [2C]	CT,NH,NY,ME,NC
Aroclor-1260	CT,NH,NY,ME,NC
Aroclor-1260 [2C]	CT,NH,NY,ME,NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	American Industrial Hygiene Association	100033	01/1/2012
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Public Health	PH-0567	09/30/2011
NY	New York State Department of Health	10899 NELAP	04/1/2012
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2012
RI	Rhode Island Department of Health	LAO00112	12/30/2011
NC	North Carolina Div. of Water Quality	652	12/31/2011
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2012
ME	State of Maine	2011028	06/9/2013



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Email: info@contestlabs.com
www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Company Name:

ATC

Telephone:

781-4044419

Address: 600 W. Cummings Rd. #540

Project #

60218650014

Attention:

J. Roberts

Client PO#

DATA DELIVERY (check all that apply)

☐ FAX ☒ EMAIL ☐ WEBSITE

Project Location:

1605 Webster Ave.

Sampled By:

J. Roberts

Email:

jroberts@contestlabs.com

Format:

☒ PDF ☒ EXCEL ☐ GIS

Project Proposal Provided? (for billing purposes)
☐ Yes ☐ No

Collection

☐ "Enhanced Data Package"

Con-Test Lab ID
(Laboratory use only)

Client Sample ID / Description

Beginning Date/Time

Ending Date/Time

Composite

Grab

*Matrix Code

Blank Code

PCB 9082 w/5000

PCB 9082 w/5000

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BASE-A-VSPT-1.5" 4-16 30/11

BASE-A-VSPT-1.5" 4-16 30/11

BASE-A-VSPT-1.5" 4-16 30/11

BASE-A-VSPT-1.5" 4-16 30/11

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BASE-A-VSPT-1.5" 4-16 30/11

BASE-A-VSPT-1.5" 4-16 30/11

BASE-A-VSPT-1.5" 4-16 30/11

-10

BASE-A-VSPT-1.5" 4-16 30/11

BASE-A-VSPT-1.5" 4-16 30/11

BASE-A-VSPT-1.5" 4-16 30/11

BASE-A-VSPT-1.5" 4-16 30/11

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BASE-A-VSPT-1.5" 4-16 30/11

BASE-A-VSPT-1.5" 4-16 30/11

BASE-A-VSPT-1.5" 4-16 30/11

Comments:

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:

H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)

Date/Time:

Turnaround

Detection Limit Requirements

Is your project MCP or RCP?

Received by: (signature)

Date/Time:

Other

Connecticut

MDL = 1000

MCP Form Required

Relinquished by: (signature)

Date/Time:

Other

Connecticut

MDL = 1000

MCP Form Required

Received by: (signature)

Date/Time:

Other

Connecticut

MDL = 1000

MCP Form Required

Received by: (signature)

Date/Time:

Other

Connecticut

MDL = 1000

MCP Form Required

Received by: (signature)

Date/Time:

Other

Connecticut

MDL = 1000

MCP Form Required

TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT



NELAC & AIHA Certified
WBE/DBE Certified



Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page 2 of 2

Company Name:

ATC

Telephone:

781-404-4419

Address:

600 N. Commercial St. #540
Woburn, MA 01801

Project # 60221865.0014

Attention:

J. Roberts

Client PO#

Project Location:

105 Webster Ave.

Fax #

DATA DELIVERY (check all that apply)
☐ FAX ☒ EMAIL ☐ WEBSITE

Sampled By:

J. Roberts

Email:

john.roberts@contestlabs.com

Project Proposal Provided? (for billing purposes)

☐ Yes ☐ No

Format:

☒ PDF ☐ EXCEL ☐ GIS

Con-Test Lab ID

(laboratory use only)

Client Sample ID / Description

Beginning Date/Time

Ending Date/Time

Composite

Grab

*Matrix Date

Run Code

Collection

☐ "Enhanced Data Package"

☐ OTHER

Con-Test Lab ID

Client Sample ID / Description

Beginning Date/Time

Ending Date/Time

Composite

Grab

*Matrix Date

Run Code

Collection

☐ "Enhanced Data Package"

☐ OTHER

Con-Test Lab ID

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Grab

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Grab

*Matrix Date

Run Code

Collection

☐ "Enhanced Data Package"

☐ OTHER

Con-Test Lab ID

Client Sample ID / Description

Beginning Date/Time

Ending Date/Time

Composite

Grab

*Matrix Date

Run Code

Collection

☐ "Enhanced Data Package"

☐ OTHER

Con-Test Lab ID

Client Sample ID / Description

Beginning Date/Time

Ending Date/Time

Composite

Grab

*Matrix Date

Run Code

Collection

☐ "Enhanced Data Package"

☐ OTHER

Con-Test Lab ID

Client Sample ID / Description

Beginning Date/Time

Ending Date/Time

Composite

Grab

*Matrix Date

Run Code

Collection

☐ "Enhanced Data Package"

☐ OTHER

Con-Test Lab ID

Client Sample ID / Description

Beginning Date/Time

Ending Date/Time

Composite

Grab

*Matrix Date

Run Code

Collection

☐ "Enhanced Data Package"

☐ OTHER

Con-Test Lab ID

Client Sample ID / Description

Beginning Date/Time

Ending Date/Time

Composite

Grab

*Matrix Date

Run Code

Collection

☐ "Enhanced Data Package"

☐ OTHER

Con-Test Lab ID

Client Sample ID / Description

Beginning Date/Time

Ending Date/Time

Composite

Grab

*Matrix Date

Run Code

Collection

☐ "Enhanced Data Package"

☐ OTHER

Con-Test Lab ID

Client Sample ID / Description

Beginning Date/Time

Ending Date/Time

Composite

Grab

*Matrix Date

Run Code

Collection

☐ "Enhanced Data Package"

☐ OTHER

Con-Test Lab ID

Client Sample ID / Description

Beginning Date/Time

Ending Date/Time

Composite

Grab

*Matrix Date

Run Code

Collection

☐ "Enhanced Data Package"

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Con-Test Lab ID

Client Sample ID / Description

Beginning Date/Time

Ending Date/Time

Composite

Grab

*Matrix Date

Run Code

Collection

☐ "Enhanced Data Package"

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Con-Test Lab ID

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Run Code

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Con-Test Lab ID

Client Sample ID / Description

Beginning Date/Time

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*Matrix Date

Run Code

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Con-Test Lab ID

Client Sample ID / Description

Beginning Date/Time

Ending Date/Time

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Run Code

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Con-Test Lab ID

Client Sample ID / Description

Beginning Date/Time

Ending Date/Time

Composite

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*Matrix Date

Run Code

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Ending Date/Time

Composite

Grab

*Matrix Date

Run Code

Collection

☐ "Enhanced Data Package"

☐ OTHER

Con-Test Lab ID

Client Sample ID / Description

Beginning Date/Time

Ending Date/Time

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com



Sample Receipt Checklist

CLIENT NAME: ATC RECEIVED BY: SD DATE: 8/31/11

- 1) Was the chain(s) of custody relinquished and signed? Yes No No CoC Included
2) Does the chain agree with the samples? Yes No
If not, explain:
3) Are all the samples in good condition? Yes No
If not, explain:

4) How were the samples received:

On Ice ☒ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☒

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 4.1

5) Are there Dissolved samples for the lab to filter?

Yes No

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples?

Yes No

Who was notified _____ Date _____ Time _____

7) Location where samples are stored:

19

Permission to subcontract samples? Yes No

(Walk-in clients only) if not already approved

Client Signature: _____

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	<u>13</u>
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____
Bisulfate _____ # DI Water _____
Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

Do all samples have the proper Acid pH: Yes No N/A

Do all samples have the proper Base pH: Yes No N/A

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Rev. 1 May 2011

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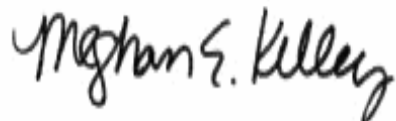
September 23, 2011

Michael Gitten
ATC Associates - Woburn
600 W Cummings Park, Suite 5500
Woburn, MA 01801

Project Location: 168 Western Ave., Brighton, MA
Client Job Number:
Project Number: 060.21865.0014
Laboratory Work Order Number: 11I0677

Enclosed are results of analyses for samples received by the laboratory on September 20, 2011. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Meghan E. Kelley
Project Manager

ATC Associates - Woburn
600 W Cummings Park, Suite 5500
Woburn, MA 01801
ATTN: Michael Gitten

REPORT DATE: 9/23/2011

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 060.21865.0014

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 1110677

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 168 Western Ave., Brighton, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
Base A-Gravel A	1110677-01	Product/Solid		SW-846 8082A	
Base B-Gravel B	1110677-02	Product/Solid		SW-846 8082A	
Ceiling Interior 12in East	1110677-03	Product/Solid		SW-846 8082A	
Ceiling Interior 12in West	1110677-04	Product/Solid		SW-846 8082A	
Base Int-B Concrete 12in	1110677-05	Product/Solid		SW-846 8082A	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

SW-846 8082A**Qualifications:**

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Samples(s) Qualified:

Decachlorobiphenyl, Decachlorobiphenyl [2C], Tetrachloro-m-xylene, Tetrachloro-m-xylene [2C]

1110677-05[Base Int-B Concrete 12in]

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Michael A. Erickson
Laboratory Director

Project Location: 168 Western Ave., Brighton, MA

Sample Description:

Work Order: 1110677

Date Received: 9/20/2011

Field Sample #: Base A-Gravel A

Sampled: 8/30/2011 00:00

Sample ID: 1110677-01

Sample Matrix: Product/Solid

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	9/21/11	9/22/11 23:42	PJG
Aroclor-1221 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	9/21/11	9/22/11 23:42	PJG
Aroclor-1232 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	9/21/11	9/22/11 23:42	PJG
Aroclor-1242 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	9/21/11	9/22/11 23:42	PJG
Aroclor-1248 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	9/21/11	9/22/11 23:42	PJG
Aroclor-1254 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	9/21/11	9/22/11 23:42	PJG
Aroclor-1260 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	9/21/11	9/22/11 23:42	PJG
Aroclor-1262 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	9/21/11	9/22/11 23:42	PJG
Aroclor-1268 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	9/21/11	9/22/11 23:42	PJG
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	88.9	30-150							
Decachlorobiphenyl [2]	89.7	30-150							
Tetrachloro-m-xylene [1]	103	30-150							
Tetrachloro-m-xylene [2]	107	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 168 Western Ave., Brighton, MA

Sample Description:

Work Order: 1110677

Date Received: 9/20/2011

Field Sample #: Base B-Gravel B

Sampled: 8/30/2011 00:00

Sample ID: 1110677-02

Sample Matrix: Product/Solid

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	9/21/11	9/22/11 23:55	PJG
Aroclor-1221 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	9/21/11	9/22/11 23:55	PJG
Aroclor-1232 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	9/21/11	9/22/11 23:55	PJG
Aroclor-1242 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	9/21/11	9/22/11 23:55	PJG
Aroclor-1248 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	9/21/11	9/22/11 23:55	PJG
Aroclor-1254 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	9/21/11	9/22/11 23:55	PJG
Aroclor-1260 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	9/21/11	9/22/11 23:55	PJG
Aroclor-1262 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	9/21/11	9/22/11 23:55	PJG
Aroclor-1268 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	9/21/11	9/22/11 23:55	PJG
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	88.4	30-150							
Decachlorobiphenyl [2]	89.1	30-150							
Tetrachloro-m-xylene [1]	99.9	30-150							
Tetrachloro-m-xylene [2]	104	30-150							

Project Location: 168 Western Ave., Brighton, MA

Sample Description:

Work Order: 1110677

Date Received: 9/20/2011

Field Sample #: Ceiling Interior 12in East

Sampled: 8/30/2011 00:00

Sample ID: 1110677-03

Sample Matrix: Product/Solid

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	9/21/11	9/23/11 14:04	JMB
Aroclor-1221 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	9/21/11	9/23/11 14:04	JMB
Aroclor-1232 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	9/21/11	9/23/11 14:04	JMB
Aroclor-1242 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	9/21/11	9/23/11 14:04	JMB
Aroclor-1248 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	9/21/11	9/23/11 14:04	JMB
Aroclor-1254 [2]	0.23	0.095	mg/Kg	1		SW-846 8082A	9/21/11	9/23/11 14:04	JMB
Aroclor-1260 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	9/21/11	9/23/11 14:04	JMB
Aroclor-1262 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	9/21/11	9/23/11 14:04	JMB
Aroclor-1268 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	9/21/11	9/23/11 14:04	JMB
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	94.1	30-150							
Decachlorobiphenyl [2]	86.3	30-150							
Tetrachloro-m-xylene [1]	98.9	30-150							
Tetrachloro-m-xylene [2]	85.9	30-150							

Project Location: 168 Western Ave., Brighton, MA

Sample Description:

Work Order: 1110677

Date Received: 9/20/2011

Field Sample #: Ceiling Interior 12in West

Sampled: 8/30/2011 00:00

Sample ID: 1110677-04

Sample Matrix: Product/Solid

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	2.0	mg/Kg	20		SW-846 8082A	9/21/11	9/23/11 14:18	JMB
Aroclor-1221 [1]	ND	2.0	mg/Kg	20		SW-846 8082A	9/21/11	9/23/11 14:18	JMB
Aroclor-1232 [1]	ND	2.0	mg/Kg	20		SW-846 8082A	9/21/11	9/23/11 14:18	JMB
Aroclor-1242 [1]	ND	2.0	mg/Kg	20		SW-846 8082A	9/21/11	9/23/11 14:18	JMB
Aroclor-1248 [1]	ND	2.0	mg/Kg	20		SW-846 8082A	9/21/11	9/23/11 14:18	JMB
Aroclor-1254 [1]	4.7	2.0	mg/Kg	20		SW-846 8082A	9/21/11	9/23/11 14:18	JMB
Aroclor-1260 [1]	ND	2.0	mg/Kg	20		SW-846 8082A	9/21/11	9/23/11 14:18	JMB
Aroclor-1262 [1]	ND	2.0	mg/Kg	20		SW-846 8082A	9/21/11	9/23/11 14:18	JMB
Aroclor-1268 [1]	ND	2.0	mg/Kg	20		SW-846 8082A	9/21/11	9/23/11 14:18	JMB
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	119	30-150							
Decachlorobiphenyl [2]	117	30-150							
Tetrachloro-m-xylene [1]	114	30-150							
Tetrachloro-m-xylene [2]	109	30-150							

Project Location: 168 Western Ave., Brighton, MA

Sample Description:

Work Order: 1110677

Date Received: 9/20/2011

Field Sample #: Base Int-B Concrete 12in

Sampled: 8/30/2011 00:00

Sample ID: 1110677-05

Sample Matrix: Product/Solid

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	10	mg/Kg	100		SW-846 8082A	9/21/11	9/23/11 14:32	JMB
Aroclor-1221 [1]	ND	10	mg/Kg	100		SW-846 8082A	9/21/11	9/23/11 14:32	JMB
Aroclor-1232 [1]	ND	10	mg/Kg	100		SW-846 8082A	9/21/11	9/23/11 14:32	JMB
Aroclor-1242 [1]	ND	10	mg/Kg	100		SW-846 8082A	9/21/11	9/23/11 14:32	JMB
Aroclor-1248 [1]	ND	10	mg/Kg	100		SW-846 8082A	9/21/11	9/23/11 14:32	JMB
Aroclor-1254 [2]	13	10	mg/Kg	100		SW-846 8082A	9/21/11	9/23/11 14:32	JMB
Aroclor-1260 [1]	ND	10	mg/Kg	100		SW-846 8082A	9/21/11	9/23/11 14:32	JMB
Aroclor-1262 [1]	ND	10	mg/Kg	100		SW-846 8082A	9/21/11	9/23/11 14:32	JMB
Aroclor-1268 [1]	ND	10	mg/Kg	100		SW-846 8082A	9/21/11	9/23/11 14:32	JMB
Surrogates	% Recovery	Recovery Limits			Flag				
Decachlorobiphenyl [1]	*	30-150			S-01			9/23/11 14:32	
Decachlorobiphenyl [2]	*	30-150			S-01			9/23/11 14:32	
Tetrachloro-m-xylene [1]	*	30-150			S-01			9/23/11 14:32	
Tetrachloro-m-xylene [2]	*	30-150			S-01			9/23/11 14:32	

Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
11I0677-01 [Base A-Gravel A]	B037715	2.10	10.0	09/21/11
11I0677-02 [Base B-Gravel B]	B037715	2.20	10.0	09/21/11

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
11I0677-03 [Ceiling Interior 12in East]	B037716	2.10	10.0	09/21/11
11I0677-04 [Ceiling Interior 12in West]	B037716	2.00	10.0	09/21/11
11I0677-05 [Base Int-B Concrete 12in]	B037716	2.00	10.0	09/21/11

QUALITY CONTROL
Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B037715 - SW-846 3540C
Blank (B037715-BLK1)

Prepared: 09/21/11 Analyzed: 09/22/11

Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	0.745		mg/Kg	1.00		74.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.763		mg/Kg	1.00		76.3	30-150			
Surrogate: Tetrachloro-m-xylene	0.888		mg/Kg	1.00		88.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.930		mg/Kg	1.00		93.0	30-150			

LCS (B037715-BS1)

Prepared: 09/21/11 Analyzed: 09/22/11

Aroclor-1016	0.30	0.10	mg/Kg	0.250		121	40-140			
Aroclor-1016 [2C]	0.30	0.10	mg/Kg	0.250		120	40-140			
Aroclor-1260	0.26	0.10	mg/Kg	0.250		105	40-140			
Aroclor-1260 [2C]	0.27	0.10	mg/Kg	0.250		110	40-140			
Surrogate: Decachlorobiphenyl	0.890		mg/Kg	1.00		89.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.905		mg/Kg	1.00		90.5	30-150			
Surrogate: Tetrachloro-m-xylene	1.04		mg/Kg	1.00		104	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.08		mg/Kg	1.00		108	30-150			

LCS Dup (B037715-BS1)

Prepared: 09/21/11 Analyzed: 09/22/11

Aroclor-1016	0.29	0.10	mg/Kg	0.250		114	40-140	5.82	30	
Aroclor-1016 [2C]	0.29	0.10	mg/Kg	0.250		118	40-140	1.70	30	
Aroclor-1260	0.26	0.10	mg/Kg	0.250		105	40-140	0.384	30	
Aroclor-1260 [2C]	0.27	0.10	mg/Kg	0.250		108	40-140	1.79	30	
Surrogate: Decachlorobiphenyl	0.867		mg/Kg	1.00		86.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.882		mg/Kg	1.00		88.2	30-150			
Surrogate: Tetrachloro-m-xylene	0.973		mg/Kg	1.00		97.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.02		mg/Kg	1.00		102	30-150			

QUALITY CONTROL
Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B037716 - SW-846 3540C
Blank (B037716-BLK1)

Prepared: 09/21/11 Analyzed: 09/23/11

Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	0.914		mg/Kg	1.00		91.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.847		mg/Kg	1.00		84.7	30-150			
Surrogate: Tetrachloro-m-xylene	0.967		mg/Kg	1.00		96.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.862		mg/Kg	1.00		86.2	30-150			

LCS (B037716-BS1)

Prepared: 09/21/11 Analyzed: 09/23/11

Aroclor-1016	0.30	0.10	mg/Kg	0.250		118	40-140			
Aroclor-1016 [2C]	0.29	0.10	mg/Kg	0.250		115	40-140			
Aroclor-1260	0.27	0.10	mg/Kg	0.250		108	40-140			
Aroclor-1260 [2C]	0.25	0.10	mg/Kg	0.250		101	40-140			
Surrogate: Decachlorobiphenyl	0.913		mg/Kg	1.00		91.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.849		mg/Kg	1.00		84.9	30-150			
Surrogate: Tetrachloro-m-xylene	1.01		mg/Kg	1.00		101	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.884		mg/Kg	1.00		88.4	30-150			

LCS Dup (B037716-BSD1)

Prepared: 09/21/11 Analyzed: 09/23/11

Aroclor-1016	0.30	0.10	mg/Kg	0.250		120	40-140	1.69	30	
Aroclor-1016 [2C]	0.29	0.10	mg/Kg	0.250		115	40-140	0.279	30	
Aroclor-1260	0.28	0.10	mg/Kg	0.250		113	40-140	4.37	30	
Aroclor-1260 [2C]	0.25	0.10	mg/Kg	0.250		102	40-140	0.848	30	
Surrogate: Decachlorobiphenyl	0.929		mg/Kg	1.00		92.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.857		mg/Kg	1.00		85.7	30-150			
Surrogate: Tetrachloro-m-xylene	1.02		mg/Kg	1.00		102	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.896		mg/Kg	1.00		89.6	30-150			

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8082A in Product/Solid</i>	
Aroclor-1016	CT,NH,NY,ME,NC
Aroclor-1016 [2C]	CT,NH,NY,ME,NC
Aroclor-1221	CT,NH,NY,ME,NC
Aroclor-1221 [2C]	CT,NH,NY,ME,NC
Aroclor-1232	CT,NH,NY,ME,NC
Aroclor-1232 [2C]	CT,NH,NY,ME,NC
Aroclor-1242	CT,NH,NY,ME,NC
Aroclor-1242 [2C]	CT,NH,NY,ME,NC
Aroclor-1248	CT,NH,NY,ME,NC
Aroclor-1248 [2C]	CT,NH,NY,ME,NC
Aroclor-1254	CT,NH,NY,ME,NC
Aroclor-1254 [2C]	CT,NH,NY,ME,NC
Aroclor-1260	CT,NH,NY,ME,NC
Aroclor-1260 [2C]	CT,NH,NY,ME,NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	American Industrial Hygiene Association	100033	01/1/2012
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Public Health	PH-0567	09/30/2011
NY	New York State Department of Health	10899 NELAP	04/1/2012
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2012
RI	Rhode Island Department of Health	LAO00112	12/30/2011
NC	North Carolina Div. of Water Quality	652	12/31/2011
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2012
ME	State of Maine	2011028	06/9/2013



con-test[®]
ANALYTICAL LABORATORY

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page 1 of 1

Company Name: ATC Associates

Telephone: 781-404-1439

Address: 600 W Cummings Park

Project # 060.21865.0014

Suite 5450

Attention: Michael.gitten@atcassociates.com

Client PO#
DATA DELIVERY (check all that apply)
☐ FAX ☐ EMAIL ☐ WEBSITE

Project Location: 168 Western Ave, Brighton, MA

Fax #

Sampled By: Jason Roback

Email:

Project Proposal Provided? (for billing purposes)
☐ Yes ☐ No
proposal date

Format:
☐ PDF ☐ EXCEL ☐ GIS
☐ OTHER

Collection

Con-Test Lab ID (laboratory use only)

Beginning Date/Time

Ending Date/Time

Composite

Grab

*Matrix Code

Unit Code

Enhanced Data Package

PCB Soxhlet ext/8082

ANALYSIS REQUESTED

of Containers

** Preservation

*** Container Code

Dissolved Metals

☐ Field Filtered

☐ Lab to Filter

*** Cont. Code:

A=amber glass

G=glass

P=plastic

ST=sterile

V= vial

S=summa can

T=tetlar bag

O=Other

**Preservation

I = Iced

H = HCL

M = Methanol

N = Nitric Acid

S = Sulfuric Acid

B = Sodium bisulfate

X = Na hydroxide

T = Na thiosulfate

O = Other

*Matrix Code:

GW= groundwater

WW= wastewater

DW= drinking water

A = air

S = soil/solid

SL = sludge

O = other

Results by 9/26/11 PM - proceed with cleanups if non-detect and detection limit > 1 ppm

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)

Date/Time: 9/13/11

Turnaround ☐ 7-Day

☐ 10-Day

☐ Other 3 DAY

Detection Limit Requirements

Massachusetts:

Connecticut:

1 PPM

Is your project MCP or RCP?

☐ MCP Form Required

☐ RCP Form Required

☐ MA State DW Form Required

PWSID #

NEIAC & AIHA Certified

WBE/DBE Certified

RECEIVED BY: (signature)

Date/Time: 9/20/11

Require lab approval

Other:

1 PPM

PCB Soxhlet ext/8082

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☐ Lab to Filter

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☐ 10-Day

☐ Other 3 DAY

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PCB Soxhlet ext/8082

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Relinquished by: (signature)

Date/Time: 9/13/11

Turnaround ☐ 7-Day

☐ 10-Day

☐ Other 3 DAY

Detection Limit Requirements

Massachusetts:

Connecticut:

1 PPM

Is your project MCP or RCP?

☐ MCP Form Required

☐ RCP Form Required

☐ MA State DW Form Required

PWSID #

NEIAC & AIHA Certified

WBE/DBE Certified

RECEIVED BY: (signature)

Date/Time: 9/20/11

Require lab approval

Other:

1 PPM

PCB Soxhlet ext/8082

ANALYSIS REQUESTED

of Containers

** Preservation

*** Container Code

Dissolved Metals

☐ Field Filtered

☐ Lab to Filter

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A=amber glass

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O=Other

**Preservation

I = Iced

H = HCL

M = Methanol

N = Nitric Acid

S = Sulfuric Acid

B = Sodium bisulfate

X = Na hydroxide

T = Na thiosulfate

O = Other

*Matrix Code:

GW= groundwater

WW= wastewater

DW= drinking water

A = air

S = soil/solid

SL = sludge

O = other

Results by 9/26/11 PM - proceed with cleanups if non-detect and detection limit > 1 ppm

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:

H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)

Date/Time: 9/13/11

Turnaround ☐ 7-Day

☐ 10-Day

☐ Other 3 DAY

Detection Limit Requirements

Massachusetts:

Connecticut:

1 PPM

Is your project MCP or RCP?

☐ MCP Form Required

☐ RCP Form Required

☐ MA State DW Form Required

PWSID #

NEIAC & AIHA Certified

WBE/DBE Certified

RECEIVED BY: (signature)

Date/Time: 9/20/11

Require lab approval

Other:

1 PPM

PCB Soxhlet ext/8082

ANALYSIS REQUESTED

of Containers

** Preservation

*** Container Code

Dissolved Metals

☐ Field Filtered

☐ Lab to Filter

*** Cont. Code:

A=amber glass

G=glass

P=plastic

ST=sterile

V= vial

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com



Sample Receipt Checklist

CLIENT NAME: ATC Associates RECEIVED BY: SD DATE: 9/20/11

1) Was the chain(s) of custody relinquished and signed? Yes No No CoC Included

2) Does the chain agree with the samples?

If not, explain:

3) Are all the samples in good condition?

If not, explain:

4) How were the samples received:

On Ice ☒ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☒

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 4.6

5) Are there Dissolved samples for the lab to filter?

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples?

Who was notified _____ Date _____ Time _____

7) Location where samples are stored:

19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	<u>5</u>
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____
Bisulfate _____ # DI Water _____
Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

Do all samples have the proper Acid pH: Yes No N/A

Do all samples have the proper Base pH: Yes No N/A

Doc# 277

Rev. 1 Mar

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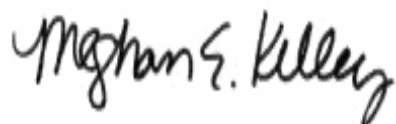
September 27, 2011

Michael Gitten
ATC Associates - Woburn
600 W Cummings Park, Suite 5500
Woburn, MA 01801

Project Location: 168 Western Ave., Brighton, MA
Client Job Number:
Project Number: 060.21865.0014
Laboratory Work Order Number: 11I0826

Enclosed are results of analyses for samples received by the laboratory on September 22, 2011. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Meghan E. Kelley". The signature is written in a cursive, flowing style.

Meghan E. Kelley
Project Manager

ATC Associates - Woburn
600 W Cummings Park, Suite 5500
Woburn, MA 01801
ATTN: Michael Gitten

REPORT DATE: 9/27/2011

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 060.21865.0014

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 1110826

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 168 Western Ave., Brighton, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
Base B Vertical 2ft - A	1110826-01	Caulk		SW-846 8082A	
Base B Vertical 2ft - B	1110826-02	Caulk		SW-846 8082A	
Base C Horizontal Edge - A	1110826-03	Caulk		SW-846 8082A	
Base C Horizontal Edge - B	1110826-04	Caulk		SW-846 8082A	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

A handwritten signature in black ink, appearing to read "M. Erickson", is displayed on a light gray rectangular background.

Michael A. Erickson
Laboratory Director

Project Location: 168 Western Ave., Brighton, MA

Sample Description:

Work Order: 1110826

Date Received: 9/22/2011

Field Sample #: Base B Vertical 2ft - A

Sampled: 9/21/2011 00:00

Sample ID: 1110826-01

Sample Matrix: Caulk

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.93	mg/Kg	5		SW-846 8082A	9/23/11	9/27/11 13:31	JMB
Aroclor-1221 [1]	ND	0.93	mg/Kg	5		SW-846 8082A	9/23/11	9/27/11 13:31	JMB
Aroclor-1232 [1]	ND	0.93	mg/Kg	5		SW-846 8082A	9/23/11	9/27/11 13:31	JMB
Aroclor-1242 [1]	ND	0.93	mg/Kg	5		SW-846 8082A	9/23/11	9/27/11 13:31	JMB
Aroclor-1248 [1]	ND	0.93	mg/Kg	5		SW-846 8082A	9/23/11	9/27/11 13:31	JMB
Aroclor-1254 [1]	ND	0.93	mg/Kg	5		SW-846 8082A	9/23/11	9/27/11 13:31	JMB
Aroclor-1260 [1]	ND	0.93	mg/Kg	5		SW-846 8082A	9/23/11	9/27/11 13:31	JMB
Aroclor-1262 [1]	ND	0.93	mg/Kg	5		SW-846 8082A	9/23/11	9/27/11 13:31	JMB
Aroclor-1268 [1]	ND	0.93	mg/Kg	5		SW-846 8082A	9/23/11	9/27/11 13:31	JMB
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	94.0	30-150							
Decachlorobiphenyl [2]	97.9	30-150							
Tetrachloro-m-xylene [1]	99.0	30-150							
Tetrachloro-m-xylene [2]	111	30-150							

Project Location: 168 Western Ave., Brighton, MA

Sample Description:

Work Order: 1110826

Date Received: 9/22/2011

Field Sample #: Base B Vertical 2ft - B

Sampled: 9/21/2011 00:00

Sample ID: 1110826-02

Sample Matrix: Caulk

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.96	mg/Kg	5		SW-846 8082A	9/23/11	9/27/11 13:43	JMB
Aroclor-1221 [1]	ND	0.96	mg/Kg	5		SW-846 8082A	9/23/11	9/27/11 13:43	JMB
Aroclor-1232 [1]	ND	0.96	mg/Kg	5		SW-846 8082A	9/23/11	9/27/11 13:43	JMB
Aroclor-1242 [1]	ND	0.96	mg/Kg	5		SW-846 8082A	9/23/11	9/27/11 13:43	JMB
Aroclor-1248 [1]	ND	0.96	mg/Kg	5		SW-846 8082A	9/23/11	9/27/11 13:43	JMB
Aroclor-1254 [1]	ND	0.96	mg/Kg	5		SW-846 8082A	9/23/11	9/27/11 13:43	JMB
Aroclor-1260 [1]	ND	0.96	mg/Kg	5		SW-846 8082A	9/23/11	9/27/11 13:43	JMB
Aroclor-1262 [1]	ND	0.96	mg/Kg	5		SW-846 8082A	9/23/11	9/27/11 13:43	JMB
Aroclor-1268 [1]	ND	0.96	mg/Kg	5		SW-846 8082A	9/23/11	9/27/11 13:43	JMB
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	101	30-150							
Decachlorobiphenyl [2]	107	30-150							
Tetrachloro-m-xylene [1]	110	30-150							
Tetrachloro-m-xylene [2]	124	30-150							

Project Location: 168 Western Ave., Brighton, MA

Sample Description:

Work Order: 1110826

Date Received: 9/22/2011

Field Sample #: Base C Horizontal Edge - A

Sampled: 9/21/2011 00:00

Sample ID: 1110826-03

Sample Matrix: Caulk

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.87	mg/Kg	5		SW-846 8082A	9/23/11	9/27/11 13:56	JMB
Aroclor-1221 [1]	ND	0.87	mg/Kg	5		SW-846 8082A	9/23/11	9/27/11 13:56	JMB
Aroclor-1232 [1]	ND	0.87	mg/Kg	5		SW-846 8082A	9/23/11	9/27/11 13:56	JMB
Aroclor-1242 [1]	ND	0.87	mg/Kg	5		SW-846 8082A	9/23/11	9/27/11 13:56	JMB
Aroclor-1248 [1]	ND	0.87	mg/Kg	5		SW-846 8082A	9/23/11	9/27/11 13:56	JMB
Aroclor-1254 [1]	ND	0.87	mg/Kg	5		SW-846 8082A	9/23/11	9/27/11 13:56	JMB
Aroclor-1260 [1]	ND	0.87	mg/Kg	5		SW-846 8082A	9/23/11	9/27/11 13:56	JMB
Aroclor-1262 [1]	ND	0.87	mg/Kg	5		SW-846 8082A	9/23/11	9/27/11 13:56	JMB
Aroclor-1268 [1]	ND	0.87	mg/Kg	5		SW-846 8082A	9/23/11	9/27/11 13:56	JMB
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	91.4	30-150							
Decachlorobiphenyl [2]	96.7	30-150							
Tetrachloro-m-xylene [1]	96.9	30-150							
Tetrachloro-m-xylene [2]	110	30-150							

Project Location: 168 Western Ave., Brighton, MA

Sample Description:

Work Order: 1110826

Date Received: 9/22/2011

Field Sample #: Base C Horizontal Edge - B

Sampled: 9/21/2011 00:00

Sample ID: 1110826-04

Sample Matrix: Caulk

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.88	mg/Kg	5		SW-846 8082A	9/23/11	9/27/11 14:09	JMB
Aroclor-1221 [1]	ND	0.88	mg/Kg	5		SW-846 8082A	9/23/11	9/27/11 14:09	JMB
Aroclor-1232 [1]	ND	0.88	mg/Kg	5		SW-846 8082A	9/23/11	9/27/11 14:09	JMB
Aroclor-1242 [1]	ND	0.88	mg/Kg	5		SW-846 8082A	9/23/11	9/27/11 14:09	JMB
Aroclor-1248 [1]	ND	0.88	mg/Kg	5		SW-846 8082A	9/23/11	9/27/11 14:09	JMB
Aroclor-1254 [1]	ND	0.88	mg/Kg	5		SW-846 8082A	9/23/11	9/27/11 14:09	JMB
Aroclor-1260 [1]	ND	0.88	mg/Kg	5		SW-846 8082A	9/23/11	9/27/11 14:09	JMB
Aroclor-1262 [1]	ND	0.88	mg/Kg	5		SW-846 8082A	9/23/11	9/27/11 14:09	JMB
Aroclor-1268 [1]	ND	0.88	mg/Kg	5		SW-846 8082A	9/23/11	9/27/11 14:09	JMB
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	94.0	30-150							
Decachlorobiphenyl [2]	99.1	30-150							
Tetrachloro-m-xylene [1]	98.4	30-150							
Tetrachloro-m-xylene [2]	112	30-150							

Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
1110826-01 [Base B Vertical 2ft - A]	B037905	0.537	10.0	09/23/11
1110826-02 [Base B Vertical 2ft - B]	B037905	0.520	10.0	09/23/11
1110826-03 [Base C Horizontal Edge - A]	B037905	0.576	10.0	09/23/11
1110826-04 [Base C Horizontal Edge - B]	B037905	0.568	10.0	09/23/11

QUALITY CONTROL
Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B037905 - SW-846 3540C
Blank (B037905-BLK1)

Prepared: 09/23/11 Analyzed: 09/27/11

Aroclor-1016	ND	0.20	mg/Kg							
Aroclor-1016 [2C]	ND	0.20	mg/Kg							
Aroclor-1221	ND	0.20	mg/Kg							
Aroclor-1221 [2C]	ND	0.20	mg/Kg							
Aroclor-1232	ND	0.20	mg/Kg							
Aroclor-1232 [2C]	ND	0.20	mg/Kg							
Aroclor-1242	ND	0.20	mg/Kg							
Aroclor-1242 [2C]	ND	0.20	mg/Kg							
Aroclor-1248	ND	0.20	mg/Kg							
Aroclor-1248 [2C]	ND	0.20	mg/Kg							
Aroclor-1254	ND	0.20	mg/Kg							
Aroclor-1254 [2C]	ND	0.20	mg/Kg							
Aroclor-1260	ND	0.20	mg/Kg							
Aroclor-1260 [2C]	ND	0.20	mg/Kg							
Aroclor-1262	ND	0.20	mg/Kg							
Aroclor-1262 [2C]	ND	0.20	mg/Kg							
Aroclor-1268	ND	0.20	mg/Kg							
Aroclor-1268 [2C]	ND	0.20	mg/Kg							
Surrogate: Decachlorobiphenyl	3.97		mg/Kg	4.00		99.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	3.87		mg/Kg	4.00		96.7	30-150			
Surrogate: Tetrachloro-m-xylene	3.93		mg/Kg	4.00		98.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	4.03		mg/Kg	4.00		101	30-150			

LCS (B037905-BS1)

Prepared: 09/23/11 Analyzed: 09/27/11

Aroclor-1016	3.5	0.20	mg/Kg	4.00		87.6	40-140			
Aroclor-1016 [2C]	3.6	0.20	mg/Kg	4.00		90.5	40-140			
Aroclor-1260	3.7	0.20	mg/Kg	4.00		91.5	40-140			
Aroclor-1260 [2C]	3.7	0.20	mg/Kg	4.00		92.0	40-140			
Surrogate: Decachlorobiphenyl	3.87		mg/Kg	4.00		96.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	3.78		mg/Kg	4.00		94.5	30-150			
Surrogate: Tetrachloro-m-xylene	3.82		mg/Kg	4.00		95.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	3.96		mg/Kg	4.00		98.9	30-150			

LCS Dup (B037905-BSD1)

Prepared: 09/23/11 Analyzed: 09/27/11

Aroclor-1016	3.9	0.20	mg/Kg	4.00		98.0	40-140	11.2	30	
Aroclor-1016 [2C]	3.8	0.20	mg/Kg	4.00		95.0	40-140	4.86	30	
Aroclor-1260	3.9	0.20	mg/Kg	4.00		97.4	40-140	6.22	30	
Aroclor-1260 [2C]	3.9	0.20	mg/Kg	4.00		98.0	40-140	6.34	30	
Surrogate: Decachlorobiphenyl	4.17		mg/Kg	4.00		104	30-150			
Surrogate: Decachlorobiphenyl [2C]	4.08		mg/Kg	4.00		102	30-150			
Surrogate: Tetrachloro-m-xylene	4.01		mg/Kg	4.00		100	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	4.15		mg/Kg	4.00		104	30-150			

FLAG/QUALIFIER SUMMARY

- * QC result is outside of established limits.
- † Wide recovery limits established for difficult compound.
- ‡ Wide RPD limits established for difficult compound.
- # Data exceeded client recommended or regulatory level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

CERTIFICATIONS**Certified Analyses included in this Report****Analyte****Certifications****No certified Analyses included in this Report**

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	American Industrial Hygiene Association	100033	01/1/2012
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Public Health	PH-0567	09/30/2011
NY	New York State Department of Health	10899 NELAP	04/1/2012
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2012
RI	Rhode Island Department of Health	LAO00112	12/30/2011
NC	North Carolina Div. of Water Quality	652	12/31/2011
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2012
ME	State of Maine	2011028	06/9/2013



con-test
ANALYTICAL LABORATORY

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page 1 of 1

Company Name: ATC Associates

Telephone: 781-4932-9400

Address: 6000 W. Cummings Rd

Project # 00021805.0014

City: Urbana, MA 01561

Client PO#

Attention: Mike Giten

DATA DELIVERY (check all that apply)
☐ FAX ☒ EMAIL ☐ WEBSITE

Project Location: 168 Western Ave.

Fax #

Sampled By: C. Amorelli

Email: Michael.Giten@ATCAssociates.com

Project Proposal Provided? (for billing purposes)
☒ Yes 9/20/17 proposal date

Format: ☒ PDF ☒ EXCEL ☐ OGIS

Project Proposal Provided? (for billing purposes)
☒ Yes 9/20/17 proposal date

Format: ☒ PDF ☒ EXCEL ☐ OGIS

Con-Test Lab ID (laboratory use only)

Client Sample ID / Description

Beginning Date/Time

Ending Date/Time

Composite

Grab

*Matrix Code

Conc Code

Enhanced Data Package

PCRs 9062 (Sachet)

PCRs 9062 (Sachet)

PCRs 9062 (Sachet)

PCRs 9062 (Sachet)

-01

Box B - Vertical - 2'-A

9/21/11

9/21/11

X

S

U

X

-02

Box B - Vertical - 2'-B

-03

Box C - Horizontal - Edge-A

-04

Box C - Horizontal - Edge-B

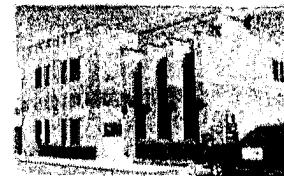
-05

Int. Paint Chip (white)

-06

Int. Paint Chip (tan)

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com



Sample Receipt Checklist

CLIENT NAME: ATC RECEIVED BY: mik DATE: 9/22

- 1) Was the chain(s) of custody relinquished and signed? Yes No No CoC Included
2) Does the chain agree with the samples? Yes No
If not, explain:
3) Are all the samples in good condition? Yes No
If not, explain:

4) How were the samples received:

On Ice ☒ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☒

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 2.6°

5) Are there Dissolved samples for the lab to filter?

Yes No

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples?

Yes No

Who was notified _____ Date _____ Time _____

7) Location where samples are stored:

log-in

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	<u>6</u>
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____
Bisulfate _____ # DI Water _____
Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

Do all samples have the proper Acid pH: Yes No N/A

Do all samples have the proper Base pH: Yes No N/A

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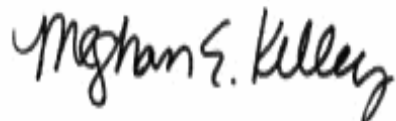
September 27, 2011

Michael Gitten
ATC Associates - Woburn
600 W Cummings Park, Suite 5500
Woburn, MA 01801

Project Location: 168 Western Ave., Brighton, MA
Client Job Number:
Project Number: 060.21865.0014
Laboratory Work Order Number: 11I0826

Enclosed are results of analyses for samples received by the laboratory on September 22, 2011. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, reading "Meghan E. Kelley". The signature is written in a cursive, flowing style.

Meghan E. Kelley
Project Manager

ATC Associates - Woburn
600 W Cummings Park, Suite 5500
Woburn, MA 01801
ATTN: Michael Gitten

REPORT DATE: 9/27/2011

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 060.21865.0014

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 1110826

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 168 Western Ave., Brighton, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
Base B Vertical 2ft - A	1110826-01	Caulk		SW-846 8082A	
Base B Vertical 2ft - B	1110826-02	Caulk		SW-846 8082A	
Base C Horizontal Edge - A	1110826-03	Caulk		SW-846 8082A	
Base C Horizontal Edge - B	1110826-04	Caulk		SW-846 8082A	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

A handwritten signature in black ink, appearing to read "M. Erickson", is displayed on a light gray rectangular background.

Michael A. Erickson
Laboratory Director

Project Location: 168 Western Ave., Brighton, MA

Sample Description:

Work Order: 1110826

Date Received: 9/22/2011

Field Sample #: Base B Vertical 2ft - A

Sampled: 9/21/2011 00:00

Sample ID: 1110826-01

Sample Matrix: Caulk

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.93	mg/Kg	5		SW-846 8082A	9/23/11	9/27/11 13:31	JMB
Aroclor-1221 [1]	ND	0.93	mg/Kg	5		SW-846 8082A	9/23/11	9/27/11 13:31	JMB
Aroclor-1232 [1]	ND	0.93	mg/Kg	5		SW-846 8082A	9/23/11	9/27/11 13:31	JMB
Aroclor-1242 [1]	ND	0.93	mg/Kg	5		SW-846 8082A	9/23/11	9/27/11 13:31	JMB
Aroclor-1248 [1]	ND	0.93	mg/Kg	5		SW-846 8082A	9/23/11	9/27/11 13:31	JMB
Aroclor-1254 [1]	ND	0.93	mg/Kg	5		SW-846 8082A	9/23/11	9/27/11 13:31	JMB
Aroclor-1260 [1]	ND	0.93	mg/Kg	5		SW-846 8082A	9/23/11	9/27/11 13:31	JMB
Aroclor-1262 [1]	ND	0.93	mg/Kg	5		SW-846 8082A	9/23/11	9/27/11 13:31	JMB
Aroclor-1268 [1]	ND	0.93	mg/Kg	5		SW-846 8082A	9/23/11	9/27/11 13:31	JMB
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	94.0	30-150							
Decachlorobiphenyl [2]	97.9	30-150							
Tetrachloro-m-xylene [1]	99.0	30-150							
Tetrachloro-m-xylene [2]	111	30-150							

Project Location: 168 Western Ave., Brighton, MA

Sample Description:

Work Order: 1110826

Date Received: 9/22/2011

Field Sample #: Base B Vertical 2ft - B

Sampled: 9/21/2011 00:00

Sample ID: 1110826-02

Sample Matrix: Caulk

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.96	mg/Kg	5		SW-846 8082A	9/23/11	9/27/11 13:43	JMB
Aroclor-1221 [1]	ND	0.96	mg/Kg	5		SW-846 8082A	9/23/11	9/27/11 13:43	JMB
Aroclor-1232 [1]	ND	0.96	mg/Kg	5		SW-846 8082A	9/23/11	9/27/11 13:43	JMB
Aroclor-1242 [1]	ND	0.96	mg/Kg	5		SW-846 8082A	9/23/11	9/27/11 13:43	JMB
Aroclor-1248 [1]	ND	0.96	mg/Kg	5		SW-846 8082A	9/23/11	9/27/11 13:43	JMB
Aroclor-1254 [1]	ND	0.96	mg/Kg	5		SW-846 8082A	9/23/11	9/27/11 13:43	JMB
Aroclor-1260 [1]	ND	0.96	mg/Kg	5		SW-846 8082A	9/23/11	9/27/11 13:43	JMB
Aroclor-1262 [1]	ND	0.96	mg/Kg	5		SW-846 8082A	9/23/11	9/27/11 13:43	JMB
Aroclor-1268 [1]	ND	0.96	mg/Kg	5		SW-846 8082A	9/23/11	9/27/11 13:43	JMB
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	101	30-150						9/27/11 13:43	
Decachlorobiphenyl [2]	107	30-150						9/27/11 13:43	
Tetrachloro-m-xylene [1]	110	30-150						9/27/11 13:43	
Tetrachloro-m-xylene [2]	124	30-150						9/27/11 13:43	

Project Location: 168 Western Ave., Brighton, MA

Sample Description:

Work Order: 1110826

Date Received: 9/22/2011

Field Sample #: Base C Horizontal Edge - A

Sampled: 9/21/2011 00:00

Sample ID: 1110826-03

Sample Matrix: Caulk

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.87	mg/Kg	5		SW-846 8082A	9/23/11	9/27/11 13:56	JMB
Aroclor-1221 [1]	ND	0.87	mg/Kg	5		SW-846 8082A	9/23/11	9/27/11 13:56	JMB
Aroclor-1232 [1]	ND	0.87	mg/Kg	5		SW-846 8082A	9/23/11	9/27/11 13:56	JMB
Aroclor-1242 [1]	ND	0.87	mg/Kg	5		SW-846 8082A	9/23/11	9/27/11 13:56	JMB
Aroclor-1248 [1]	ND	0.87	mg/Kg	5		SW-846 8082A	9/23/11	9/27/11 13:56	JMB
Aroclor-1254 [1]	ND	0.87	mg/Kg	5		SW-846 8082A	9/23/11	9/27/11 13:56	JMB
Aroclor-1260 [1]	ND	0.87	mg/Kg	5		SW-846 8082A	9/23/11	9/27/11 13:56	JMB
Aroclor-1262 [1]	ND	0.87	mg/Kg	5		SW-846 8082A	9/23/11	9/27/11 13:56	JMB
Aroclor-1268 [1]	ND	0.87	mg/Kg	5		SW-846 8082A	9/23/11	9/27/11 13:56	JMB
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	91.4	30-150							
Decachlorobiphenyl [2]	96.7	30-150							
Tetrachloro-m-xylene [1]	96.9	30-150							
Tetrachloro-m-xylene [2]	110	30-150							

Project Location: 168 Western Ave., Brighton, MA

Sample Description:

Work Order: 1110826

Date Received: 9/22/2011

Field Sample #: Base C Horizontal Edge - B

Sampled: 9/21/2011 00:00

Sample ID: 1110826-04

Sample Matrix: Caulk

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.88	mg/Kg	5		SW-846 8082A	9/23/11	9/27/11 14:09	JMB
Aroclor-1221 [1]	ND	0.88	mg/Kg	5		SW-846 8082A	9/23/11	9/27/11 14:09	JMB
Aroclor-1232 [1]	ND	0.88	mg/Kg	5		SW-846 8082A	9/23/11	9/27/11 14:09	JMB
Aroclor-1242 [1]	ND	0.88	mg/Kg	5		SW-846 8082A	9/23/11	9/27/11 14:09	JMB
Aroclor-1248 [1]	ND	0.88	mg/Kg	5		SW-846 8082A	9/23/11	9/27/11 14:09	JMB
Aroclor-1254 [1]	ND	0.88	mg/Kg	5		SW-846 8082A	9/23/11	9/27/11 14:09	JMB
Aroclor-1260 [1]	ND	0.88	mg/Kg	5		SW-846 8082A	9/23/11	9/27/11 14:09	JMB
Aroclor-1262 [1]	ND	0.88	mg/Kg	5		SW-846 8082A	9/23/11	9/27/11 14:09	JMB
Aroclor-1268 [1]	ND	0.88	mg/Kg	5		SW-846 8082A	9/23/11	9/27/11 14:09	JMB
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	94.0	30-150							
Decachlorobiphenyl [2]	99.1	30-150							
Tetrachloro-m-xylene [1]	98.4	30-150							
Tetrachloro-m-xylene [2]	112	30-150							

Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
1110826-01 [Base B Vertical 2ft - A]	B037905	0.537	10.0	09/23/11
1110826-02 [Base B Vertical 2ft - B]	B037905	0.520	10.0	09/23/11
1110826-03 [Base C Horizontal Edge - A]	B037905	0.576	10.0	09/23/11
1110826-04 [Base C Horizontal Edge - B]	B037905	0.568	10.0	09/23/11

QUALITY CONTROL
Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B037905 - SW-846 3540C
Blank (B037905-BLK1)

Prepared: 09/23/11 Analyzed: 09/27/11

Aroclor-1016	ND	0.20	mg/Kg							
Aroclor-1016 [2C]	ND	0.20	mg/Kg							
Aroclor-1221	ND	0.20	mg/Kg							
Aroclor-1221 [2C]	ND	0.20	mg/Kg							
Aroclor-1232	ND	0.20	mg/Kg							
Aroclor-1232 [2C]	ND	0.20	mg/Kg							
Aroclor-1242	ND	0.20	mg/Kg							
Aroclor-1242 [2C]	ND	0.20	mg/Kg							
Aroclor-1248	ND	0.20	mg/Kg							
Aroclor-1248 [2C]	ND	0.20	mg/Kg							
Aroclor-1254	ND	0.20	mg/Kg							
Aroclor-1254 [2C]	ND	0.20	mg/Kg							
Aroclor-1260	ND	0.20	mg/Kg							
Aroclor-1260 [2C]	ND	0.20	mg/Kg							
Aroclor-1262	ND	0.20	mg/Kg							
Aroclor-1262 [2C]	ND	0.20	mg/Kg							
Aroclor-1268	ND	0.20	mg/Kg							
Aroclor-1268 [2C]	ND	0.20	mg/Kg							
Surrogate: Decachlorobiphenyl	3.97		mg/Kg	4.00		99.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	3.87		mg/Kg	4.00		96.7	30-150			
Surrogate: Tetrachloro-m-xylene	3.93		mg/Kg	4.00		98.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	4.03		mg/Kg	4.00		101	30-150			

LCS (B037905-BS1)

Prepared: 09/23/11 Analyzed: 09/27/11

Aroclor-1016	3.5	0.20	mg/Kg	4.00		87.6	40-140			
Aroclor-1016 [2C]	3.6	0.20	mg/Kg	4.00		90.5	40-140			
Aroclor-1260	3.7	0.20	mg/Kg	4.00		91.5	40-140			
Aroclor-1260 [2C]	3.7	0.20	mg/Kg	4.00		92.0	40-140			
Surrogate: Decachlorobiphenyl	3.87		mg/Kg	4.00		96.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	3.78		mg/Kg	4.00		94.5	30-150			
Surrogate: Tetrachloro-m-xylene	3.82		mg/Kg	4.00		95.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	3.96		mg/Kg	4.00		98.9	30-150			

LCS Dup (B037905-BSD1)

Prepared: 09/23/11 Analyzed: 09/27/11

Aroclor-1016	3.9	0.20	mg/Kg	4.00		98.0	40-140	11.2	30	
Aroclor-1016 [2C]	3.8	0.20	mg/Kg	4.00		95.0	40-140	4.86	30	
Aroclor-1260	3.9	0.20	mg/Kg	4.00		97.4	40-140	6.22	30	
Aroclor-1260 [2C]	3.9	0.20	mg/Kg	4.00		98.0	40-140	6.34	30	
Surrogate: Decachlorobiphenyl	4.17		mg/Kg	4.00		104	30-150			
Surrogate: Decachlorobiphenyl [2C]	4.08		mg/Kg	4.00		102	30-150			
Surrogate: Tetrachloro-m-xylene	4.01		mg/Kg	4.00		100	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	4.15		mg/Kg	4.00		104	30-150			

FLAG/QUALIFIER SUMMARY

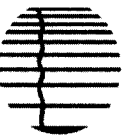
- * QC result is outside of established limits.
- † Wide recovery limits established for difficult compound.
- ‡ Wide RPD limits established for difficult compound.
- # Data exceeded client recommended or regulatory level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

CERTIFICATIONS**Certified Analyses included in this Report****Analyte****Certifications****No certified Analyses included in this Report**

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	American Industrial Hygiene Association	100033	01/1/2012
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Public Health	PH-0567	09/30/2011
NY	New York State Department of Health	10899 NELAP	04/1/2012
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2012
RI	Rhode Island Department of Health	LAO00112	12/30/2011
NC	North Carolina Div. of Water Quality	652	12/31/2011
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2012
ME	State of Maine	2011028	06/9/2013



con-test
ANALYTICAL LABORATORY

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page 1 of 1

Company Name: ATC Associates

Telephone: 781-4932-9400

Address: 6000 W. Cummings Rd

Project # 00021805.0014

City: Urbana, MA 01561

Client PO#

Attention: Mike Giten

DATA DELIVERY (check all that apply)
☐ FAX ☒ EMAIL ☐ WEBSITE

Project Location: 168 Western Ave.

Fax #

Sampled By: C. Amorelli

Email: Michael.Giten@ATCAssociates.com

Project Proposal Provided? (for billing purposes)
☒ Yes 9/20/17 proposal date

Format: ☒ PDF ☒ EXCEL ☐ OGIS

Project Proposal Provided? (for billing purposes)
☒ Yes 9/20/17 proposal date

Format: ☒ PDF ☒ EXCEL ☐ OGIS

Con-Test Lab ID (laboratory use only)

Client Sample ID / Description

Beginning Date/Time

Ending Date/Time

Composite

Grab

*Matrix Code

Conc Code

Conc Code

Conc Code

Conc Code

Conc Code

Conc Code

Con-Test Lab ID (laboratory use only)

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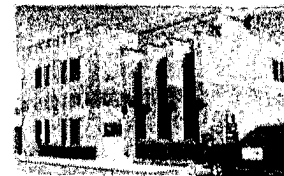
Conc Code

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Conc Code

Conc Code

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com



Sample Receipt Checklist

CLIENT NAME: ATC RECEIVED BY: mik DATE: 9/22

- 1) Was the chain(s) of custody relinquished and signed? Yes No No CoC Included
2) Does the chain agree with the samples? Yes No
If not, explain:
3) Are all the samples in good condition? Yes No
If not, explain:

4) How were the samples received:

On Ice ☒ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☒

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 2.6°

5) Are there Dissolved samples for the lab to filter?

Yes No

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples?

Yes No

Who was notified _____ Date _____ Time _____

7) Location where samples are stored:

log-in

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	<u>6</u>
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____
Bisulfate _____ # DI Water _____
Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

Do all samples have the proper Acid pH: Yes No N/A

Do all samples have the proper Base pH: Yes No N/A

Doc# 277

Rev. 1 May 2011

Page 13 of 13

October 19, 2011

Jason Roback
ATC Associates - Woburn
600 W Cummings Park, Suite 5500
Woburn, MA 01801

Project Location: 168 Western Ave., Allston
Client Job Number:
Project Number: 60.21865.6014
Laboratory Work Order Number: 11J0387

Enclosed are results of analyses for samples received by the laboratory on October 12, 2011. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, reading "Meghan E. Kelley". The signature is written in a cursive, flowing style.

Meghan E. Kelley
Project Manager



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ATC Associates - Woburn
600 W Cummings Park, Suite 5500
Woburn, MA 01801
ATTN: Jason Roback

REPORT DATE: 10/19/2011

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 60.21865.6014

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 11J0387

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 168 Western Ave., Allston

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
Base B-Interior-18-B	11J0387-01	Product/Solid		SW-846 8082A	
Base B-Interior-6-C	11J0387-02	Product/Solid		SW-846 8082A	
Base C-Interior-Tile-6-A	11J0387-03	Product/Solid		SW-846 8082A	
Base C-Interior-Grout 6-A	11J0387-04	Product/Solid		SW-846 8082A	
Base A-Interior-Tile 6-B	11J0387-05	Product/Solid		SW-846 8082A	
Base A-Interior-Grout-6-B	11J0387-06	Product/Solid		SW-846 8082A	
Base A-Interior-Tile-6-A	11J0387-07	Product/Solid		SW-846 8082A	
Base A-Interior-Grout-6-A	11J0387-08	Product/Solid		SW-846 8082A	
Showroom Carpet/Mastic	11J0387-09	Product/Solid		SW-846 8082A	
Garage Carpet/Mastic	11J0387-10	Product/Solid		SW-846 8082A	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

A handwritten signature in black ink, appearing to read "M. Erickson", is displayed on a light gray rectangular background.

Michael A. Erickson
Laboratory Director

Project Location: 168 Western Ave., Allston

Sample Description:

Work Order: 11J0387

Date Received: 10/12/2011

Field Sample #: Base B-Interior-18-B

Sampled: 10/11/2011 09:00

Sample ID: 11J0387-01

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.95	mg/Kg	10		SW-846 8082A	10/12/11	10/14/11 11:22	PJG
Aroclor-1221 [1]	ND	0.95	mg/Kg	10		SW-846 8082A	10/12/11	10/14/11 11:22	PJG
Aroclor-1232 [1]	ND	0.95	mg/Kg	10		SW-846 8082A	10/12/11	10/14/11 11:22	PJG
Aroclor-1242 [1]	ND	0.95	mg/Kg	10		SW-846 8082A	10/12/11	10/14/11 11:22	PJG
Aroclor-1248 [1]	ND	0.95	mg/Kg	10		SW-846 8082A	10/12/11	10/14/11 11:22	PJG
Aroclor-1254 [2]	7.9	0.95	mg/Kg	10		SW-846 8082A	10/12/11	10/14/11 11:22	PJG
Aroclor-1260 [1]	ND	0.95	mg/Kg	10		SW-846 8082A	10/12/11	10/14/11 11:22	PJG
Aroclor-1262 [1]	ND	0.95	mg/Kg	10		SW-846 8082A	10/12/11	10/14/11 11:22	PJG
Aroclor-1268 [1]	ND	0.95	mg/Kg	10		SW-846 8082A	10/12/11	10/14/11 11:22	PJG
Surrogates	% Recovery		Recovery Limits		Flag				
Decachlorobiphenyl [1]	92.7		30-150				10/14/11 11:22		
Decachlorobiphenyl [2]	107		30-150				10/14/11 11:22		
Tetrachloro-m-xylene [1]	105		30-150				10/14/11 11:22		
Tetrachloro-m-xylene [2]	116		30-150				10/14/11 11:22		

Project Location: 168 Western Ave., Allston

Sample Description:

Work Order: 11J0387

Date Received: 10/12/2011

Field Sample #: Base B-Interior-6-C

Sampled: 10/11/2011 10:00

Sample ID: 11J0387-02

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	10/12/11	10/14/11 11:36	PJG
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	10/12/11	10/14/11 11:36	PJG
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	10/12/11	10/14/11 11:36	PJG
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	10/12/11	10/14/11 11:36	PJG
Aroclor-1248 [2]	0.23	0.10	mg/Kg	1		SW-846 8082A	10/12/11	10/14/11 11:36	PJG
Aroclor-1254 [2]	0.75	0.10	mg/Kg	1		SW-846 8082A	10/12/11	10/14/11 11:36	PJG
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	10/12/11	10/14/11 11:36	PJG
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	10/12/11	10/14/11 11:36	PJG
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	10/12/11	10/14/11 11:36	PJG
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	95.1	30-150							
Decachlorobiphenyl [2]	102	30-150							
Tetrachloro-m-xylene [1]	99.0	30-150							
Tetrachloro-m-xylene [2]	110	30-150							

Project Location: 168 Western Ave., Allston

Sample Description:

Work Order: 11J0387

Date Received: 10/12/2011

Field Sample #: Base C-Interior-Tile-6-A

Sampled: 10/11/2011 11:00

Sample ID: 11J0387-03

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	10/12/11	10/13/11 15:42	PJG
Aroclor-1221 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	10/12/11	10/13/11 15:42	PJG
Aroclor-1232 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	10/12/11	10/13/11 15:42	PJG
Aroclor-1242 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	10/12/11	10/13/11 15:42	PJG
Aroclor-1248 [2]	0.46	0.095	mg/Kg	1		SW-846 8082A	10/12/11	10/13/11 15:42	PJG
Aroclor-1254 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	10/12/11	10/13/11 15:42	PJG
Aroclor-1260 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	10/12/11	10/13/11 15:42	PJG
Aroclor-1262 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	10/12/11	10/13/11 15:42	PJG
Aroclor-1268 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	10/12/11	10/13/11 15:42	PJG
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	78.8	30-150							
Decachlorobiphenyl [2]	85.4	30-150							
Tetrachloro-m-xylene [1]	96.9	30-150							
Tetrachloro-m-xylene [2]	98.3	30-150							

Project Location: 168 Western Ave., Allston

Sample Description:

Work Order: 11J0387

Date Received: 10/12/2011

Field Sample #: Base C-Interior-Grout 6-A

Sampled: 10/11/2011 11:15

Sample ID: 11J0387-04

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	10/12/11	10/13/11 15:56	PJG
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	10/12/11	10/13/11 15:56	PJG
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	10/12/11	10/13/11 15:56	PJG
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	10/12/11	10/13/11 15:56	PJG
Aroclor-1248 [2]	0.15	0.10	mg/Kg	1		SW-846 8082A	10/12/11	10/13/11 15:56	PJG
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	10/12/11	10/13/11 15:56	PJG
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	10/12/11	10/13/11 15:56	PJG
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	10/12/11	10/13/11 15:56	PJG
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	10/12/11	10/13/11 15:56	PJG
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	80.9	30-150							
Decachlorobiphenyl [2]	88.2	30-150							
Tetrachloro-m-xylene [1]	96.1	30-150							
Tetrachloro-m-xylene [2]	100	30-150							

Project Location: 168 Western Ave., Allston

Sample Description:

Work Order: 11J0387

Date Received: 10/12/2011

Field Sample #: Base A-Interior-Tile 6-B

Sampled: 10/11/2011 12:00

Sample ID: 11J0387-05

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	10/12/11	10/13/11 16:10	PJG
Aroclor-1221 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	10/12/11	10/13/11 16:10	PJG
Aroclor-1232 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	10/12/11	10/13/11 16:10	PJG
Aroclor-1242 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	10/12/11	10/13/11 16:10	PJG
Aroclor-1248 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	10/12/11	10/13/11 16:10	PJG
Aroclor-1254 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	10/12/11	10/13/11 16:10	PJG
Aroclor-1260 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	10/12/11	10/13/11 16:10	PJG
Aroclor-1262 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	10/12/11	10/13/11 16:10	PJG
Aroclor-1268 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	10/12/11	10/13/11 16:10	PJG
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	86.9	30-150							
Decachlorobiphenyl [2]	94.6	30-150							
Tetrachloro-m-xylene [1]	97.3	30-150							
Tetrachloro-m-xylene [2]	101	30-150							

Project Location: 168 Western Ave., Allston

Sample Description:

Work Order: 11J0387

Date Received: 10/12/2011

Field Sample #: Base A-Interior-Grout-6-B

Sampled: 10/11/2011 12:15

Sample ID: 11J0387-06

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	10/12/11	10/13/11 16:24	PJG
Aroclor-1221 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	10/12/11	10/13/11 16:24	PJG
Aroclor-1232 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	10/12/11	10/13/11 16:24	PJG
Aroclor-1242 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	10/12/11	10/13/11 16:24	PJG
Aroclor-1248 [1]	0.91	0.091	mg/Kg	1		SW-846 8082A	10/12/11	10/13/11 16:24	PJG
Aroclor-1254 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	10/12/11	10/13/11 16:24	PJG
Aroclor-1260 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	10/12/11	10/13/11 16:24	PJG
Aroclor-1262 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	10/12/11	10/13/11 16:24	PJG
Aroclor-1268 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	10/12/11	10/13/11 16:24	PJG
Surrogates	% Recovery		Recovery Limits		Flag				
Decachlorobiphenyl [1]	85.2		30-150				10/13/11 16:24		
Decachlorobiphenyl [2]	93.5		30-150				10/13/11 16:24		
Tetrachloro-m-xylene [1]	101		30-150				10/13/11 16:24		
Tetrachloro-m-xylene [2]	102		30-150				10/13/11 16:24		

Project Location: 168 Western Ave., Allston

Sample Description:

Work Order: 11J0387

Date Received: 10/12/2011

Field Sample #: Base A-Interior-Tile-6-A

Sampled: 10/11/2011 14:00

Sample ID: 11J0387-07

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	10/12/11	10/13/11 16:38	PJG
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	10/12/11	10/13/11 16:38	PJG
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	10/12/11	10/13/11 16:38	PJG
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	10/12/11	10/13/11 16:38	PJG
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	10/12/11	10/13/11 16:38	PJG
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	10/12/11	10/13/11 16:38	PJG
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	10/12/11	10/13/11 16:38	PJG
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	10/12/11	10/13/11 16:38	PJG
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	10/12/11	10/13/11 16:38	PJG
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	83.1	30-150							
Decachlorobiphenyl [2]	91.4	30-150							
Tetrachloro-m-xylene [1]	100	30-150							
Tetrachloro-m-xylene [2]	103	30-150							

Project Location: 168 Western Ave., Allston

Sample Description:

Work Order: 11J0387

Date Received: 10/12/2011

Field Sample #: Base A-Interior-Grout-6-A

Sampled: 10/11/2011 14:15

Sample ID: 11J0387-08

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	10/12/11	10/13/11 16:53	PJG
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	10/12/11	10/13/11 16:53	PJG
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	10/12/11	10/13/11 16:53	PJG
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	10/12/11	10/13/11 16:53	PJG
Aroclor-1248 [2]	0.16	0.10	mg/Kg	1		SW-846 8082A	10/12/11	10/13/11 16:53	PJG
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	10/12/11	10/13/11 16:53	PJG
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	10/12/11	10/13/11 16:53	PJG
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	10/12/11	10/13/11 16:53	PJG
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	10/12/11	10/13/11 16:53	PJG
Surrogates	% Recovery		Recovery Limits		Flag				
Decachlorobiphenyl [1]	53.7		30-150				10/13/11 16:53		
Decachlorobiphenyl [2]	60.1		30-150				10/13/11 16:53		
Tetrachloro-m-xylene [1]	70.6		30-150				10/13/11 16:53		
Tetrachloro-m-xylene [2]	73.8		30-150				10/13/11 16:53		

Project Location: 168 Western Ave., Allston

Sample Description:

Work Order: 11J0387

Date Received: 10/12/2011

Field Sample #: Showroom Carpet/Mastic

Sampled: 10/11/2011 15:00

Sample ID: 11J0387-09

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	10/12/11	10/13/11 17:07	PJG
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	10/12/11	10/13/11 17:07	PJG
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	10/12/11	10/13/11 17:07	PJG
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	10/12/11	10/13/11 17:07	PJG
Aroclor-1248 [2]	0.65	0.10	mg/Kg	1		SW-846 8082A	10/12/11	10/13/11 17:07	PJG
Aroclor-1254 [2]	0.53	0.10	mg/Kg	1		SW-846 8082A	10/12/11	10/13/11 17:07	PJG
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	10/12/11	10/13/11 17:07	PJG
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	10/12/11	10/13/11 17:07	PJG
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	10/12/11	10/13/11 17:07	PJG
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	80.7	30-150							
Decachlorobiphenyl [2]	87.4	30-150							
Tetrachloro-m-xylene [1]	95.4	30-150							
Tetrachloro-m-xylene [2]	96.6	30-150							

Project Location: 168 Western Ave., Allston

Sample Description:

Work Order: 11J0387

Date Received: 10/12/2011

Field Sample #: Garage Carpet/Mastic

Sampled: 10/11/2011 15:15

Sample ID: 11J0387-10

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	10/12/11	10/14/11 11:50	PJG
Aroclor-1221 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	10/12/11	10/14/11 11:50	PJG
Aroclor-1232 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	10/12/11	10/14/11 11:50	PJG
Aroclor-1242 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	10/12/11	10/14/11 11:50	PJG
Aroclor-1248 [2]	3.6	0.50	mg/Kg	5		SW-846 8082A	10/12/11	10/14/11 11:50	PJG
Aroclor-1254 [1]	1.4	0.50	mg/Kg	5		SW-846 8082A	10/12/11	10/14/11 11:50	PJG
Aroclor-1260 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	10/12/11	10/14/11 11:50	PJG
Aroclor-1262 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	10/12/11	10/14/11 11:50	PJG
Aroclor-1268 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	10/12/11	10/14/11 11:50	PJG
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	87.0	30-150							
Decachlorobiphenyl [2]	98.9	30-150							
Tetrachloro-m-xylene [1]	96.5	30-150							
Tetrachloro-m-xylene [2]	110	30-150							

Sample Extraction Data**Prep Method: SW-846 3540C-SW-846 8082A**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
11J0387-01 [Base B-Interior-18-B]	B039050	2.10	10.0	10/12/11
11J0387-02 [Base B-Interior-6-C]	B039050	2.00	10.0	10/12/11
11J0387-03 [Base C-Interior-Tile-6-A]	B039050	2.10	10.0	10/12/11
11J0387-04 [Base C-Interior-Grout 6-A]	B039050	2.00	10.0	10/12/11
11J0387-05 [Base A-Interior-Tile 6-B]	B039050	2.10	10.0	10/12/11
11J0387-06 [Base A-Interior-Grout-6-B]	B039050	2.20	10.0	10/12/11
11J0387-07 [Base A-Interior-Tile-6-A]	B039050	2.00	10.0	10/12/11
11J0387-08 [Base A-Interior-Grout-6-A]	B039050	2.00	10.0	10/12/11
11J0387-09 [Showroom Carpet/Mastic]	B039050	2.00	10.0	10/12/11
11J0387-10 [Garage Carpet/Mastic]	B039050	2.00	10.0	10/12/11

QUALITY CONTROL
Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B039050 - SW-846 3540C
Blank (B039050-BLK1)

Prepared: 10/12/11 Analyzed: 10/13/11

Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	0.932		mg/Kg	1.00		93.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.972		mg/Kg	1.00		97.2	30-150			
Surrogate: Tetrachloro-m-xylene	0.921		mg/Kg	1.00		92.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.932		mg/Kg	1.00		93.2	30-150			

LCS (B039050-BS1)

Prepared: 10/12/11 Analyzed: 10/13/11

Aroclor-1016	0.26	0.10	mg/Kg	0.250		102	40-140			
Aroclor-1016 [2C]	0.29	0.10	mg/Kg	0.250		116	40-140			
Aroclor-1260	0.24	0.10	mg/Kg	0.250		97.1	40-140			
Aroclor-1260 [2C]	0.29	0.10	mg/Kg	0.250		117	40-140			
Surrogate: Decachlorobiphenyl	0.978		mg/Kg	1.00		97.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.02		mg/Kg	1.00		102	30-150			
Surrogate: Tetrachloro-m-xylene	0.957		mg/Kg	1.00		95.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.966		mg/Kg	1.00		96.6	30-150			

LCS Dup (B039050-BSD1)

Prepared: 10/12/11 Analyzed: 10/13/11

Aroclor-1016	0.25	0.10	mg/Kg	0.250		100	40-140	1.72	30	
Aroclor-1016 [2C]	0.29	0.10	mg/Kg	0.250		115	40-140	0.393	30	
Aroclor-1260	0.23	0.10	mg/Kg	0.250		93.6	40-140	3.67	30	
Aroclor-1260 [2C]	0.29	0.10	mg/Kg	0.250		116	40-140	0.465	30	
Surrogate: Decachlorobiphenyl	0.930		mg/Kg	1.00		93.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.975		mg/Kg	1.00		97.5	30-150			
Surrogate: Tetrachloro-m-xylene	0.936		mg/Kg	1.00		93.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.957		mg/Kg	1.00		95.7	30-150			

FLAG/QUALIFIER SUMMARY

- * QC result is outside of established limits.
- † Wide recovery limits established for difficult compound.
- ‡ Wide RPD limits established for difficult compound.
- # Data exceeded client recommended or regulatory level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8082A in Product/Solid</i>	
Aroclor-1016	CT,NH,NY,ME,NC
Aroclor-1016 [2C]	CT,NH,NY,ME,NC
Aroclor-1221	CT,NH,NY,ME,NC
Aroclor-1221 [2C]	CT,NH,NY,ME,NC
Aroclor-1232	CT,NH,NY,ME,NC
Aroclor-1232 [2C]	CT,NH,NY,ME,NC
Aroclor-1242	CT,NH,NY,ME,NC
Aroclor-1242 [2C]	CT,NH,NY,ME,NC
Aroclor-1248	CT,NH,NY,ME,NC
Aroclor-1248 [2C]	CT,NH,NY,ME,NC
Aroclor-1254	CT,NH,NY,ME,NC
Aroclor-1254 [2C]	CT,NH,NY,ME,NC
Aroclor-1260	CT,NH,NY,ME,NC
Aroclor-1260 [2C]	CT,NH,NY,ME,NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	American Industrial Hygiene Association	100033	01/1/2012
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Public Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2012
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2012
RI	Rhode Island Department of Health	LAO00112	12/30/2011
NC	North Carolina Div. of Water Quality	652	12/31/2011
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2012
ME	State of Maine	2011028	06/9/2013



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CHAIN OF CUSTODY RECORD

39 SPRUCE ST, 2ND FLOOR
EAST LONGMEADOW, MA 01028

Page 1 of 1

Company Name:

ATC ASSOCIATES

Telephone: (413) 404-1419

Address:

600 W. Cummings Rd. #3450
Woburn, MA 01801

Project # 60-21865.0014

Attention:

J. ROBACK

Client PO #

Project Location:

168 Webster Ave., Auburn

Sampled By:

J. ROBACK

Proposal Provided? (For Billing purposes)

☐ yes ☐ no

State Form Required?

☐ yes ☐ no

DATA DELIVERY (check one):

☐ FAX ☒ EMAIL ☐ WEBSITE CLIENT

Fax #:

Email: jason.robback@ataassociates.com

Format: ☒ EXCEL ☐ PDF ☐ GIS KEY

☐ OTHER

Date Sampled

Field ID	Sample Description	Lab #	Start Date/Time	Stop Date/Time	Composite	Grab	*Matrix Code	Conc. Code	Client Comments:
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01	Basis B - INTERIOR - 18" - B		10/11/11	9:00			S	U	PLB 8082 = 1/50X H2O2
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02	Basis B - INTERIOR - 6" - C			10:00					
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03	Basis C - INTERIOR - 12" - A			11:00					
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04	Basis C - INTERIOR - 6" - A			11:15					
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05	Basis A - INTERIOR - 12" - B			12:00					
----	------------------------------	--	--	-------	--	--	--	--	--

06	Basis A - INTERIOR - 6" - B			12:15					
----	-----------------------------	--	--	-------	--	--	--	--	--

07	Basis A - INTERIOR - 12" - A			14:00					
----	------------------------------	--	--	-------	--	--	--	--	--

08	Basis A - INTERIOR - 6" - A			14:15					
----	-----------------------------	--	--	-------	--	--	--	--	--

Laboratory Comments: Results due by 5pm on 10/19/11.

Relinquished by (signature) [Signature] Date/Time: 10/12/11 11:00

Received by (signature) [Signature] Date/Time: 10/22/11 11:00

Relinquished by (signature) [Signature] Date/Time: 10/22/11 10:45

Received by (signature) [Signature] Date/Time: 10/12/11 10:45

Turnaround Time Starts at 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

ANALYSIS REQUESTED

-Cont. Code:

A=amber glass

G=glass

P=plastic

ST=sterile

V=vial

S=summary can

T=tedlar bag

O=Other

H - High; M - Medium; L - Low; C - Clean; U - Unknown

Detection Limit Requirements

Regulations? 2 ppm

Other Enhancement Project/RCP? ☐ Y ☒ N

Special Requirements or D.L.s:

Turnaround **

☐ 7-Day ☐ 10-Day ☒ Other 5 days

RUSH * ☐ 24-Hr ☐ 48-Hr ☐ 72-Hr ☐ 4-Day

Require Lab approval

**Preservation Codes:

I = Iced

H = HCL

M = Methanol

N = Nitric Acid

S = Sulfuric Acid

B = Sodium bisulfate

O = Other

AIHA, NELAP & WBE/DBE Certified



Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
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CHAIN OF CUSTODY RECORD

39 SPRUCE ST, 2ND FLOOR
EAST LONGMEADOW, MA 01028

Page 2 of 2

Company Name:

ATC ASSOCIATES

Telephone:

(781) 404-1419

Address:

600 W. COMMUNDOSt. #5450
Woburn, MA 01801

Project #

60.21865.0014

Attention:

J. ROBACK

Client PO #

Project Location:

165 WESTERN AVE, AUSTON

Sampled By:

J. ROBACK

Proposal Provided? (For Billing purposes)

☐ yes

proposal date

☐ yes

☐ no

State Form Required?

☐ OTHER

DATA DELIVERY (check one):

☐ FAX ☒ EMAIL ☐ WEBSITE CLIENT

Fax #:

Email: jason.robback@atcassociates.com
Format: ☒ EXCEL ☐ PDF ☐ GIS KEY

Field ID

Sample Description

Lab #

Start Date/Time

Stop Date/Time

Comp-
osite

Grab

*Matrix | Conc.
Code | Code

09 SHOWERROOM-CARPET/WASTIC
10 GARAGE-CARPET/WASTIC

10/11/11 15:00
10/11/11 15:15

X S U

X S U

X S U

X S U

X S U

PCB 4082 w/ SOXHELER

Client
Comments:

-Cont. Code:

A=amber glass
G=glass
P=plastic
ST=sterile
V=vial
S=summary can
T=tedlar bag
O=Other

Laboratory Comments:

Results Due By 5pm on 10/19/11.

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by (signature)

Date/Time:

11/10

Turnaround **
☐ 7-Day

Detection Limit Requirements?

Regulations?

*Matrix Code:

GW= groundwater
WW= wastewater
DW= drinking water
A= air
S= soil/solid
SL= sludge
O= other

**Preservation Codes:

I= Iced
H= HCL
M= Methanol
N= Nitric Acid
S= Sulfuric Acid
B= Sodium bisulfate
O= Other

Received by (signature)

Date/Time:

10-12-11

☐ 10-DAY

Other

Special Requirements or D.L's:

Project/RCP? ☐ Y ☒ N

DATA ENHANCEMENT PROJECT/RCP?

DATA ENHANCEMENT PROJECT/RCP?

DATA ENHANCEMENT PROJECT/RCP?

DATA ENHANCEMENT PROJECT/RCP?

DATA ENHANCEMENT PROJECT/RCP?

DATA ENHANCEMENT PROJECT/RCP?

DATA ENHANCEMENT PROJECT/RCP?

DATA ENHANCEMENT PROJECT/RCP?

DATA ENHANCEMENT PROJECT/RCP?

DATA ENHANCEMENT PROJECT/RCP?

DATA ENHANCEMENT PROJECT/RCP?

Relinquished by (signature)

Date/Time:

10-12-11

☐ 10-DAY

Other

Special Requirements or D.L's:

Project/RCP? ☐ Y ☒ N

DATA ENHANCEMENT PROJECT/RCP?

DATA ENHANCEMENT PROJECT/RCP?

DATA ENHANCEMENT PROJECT/RCP?

DATA ENHANCEMENT PROJECT/RCP?

DATA ENHANCEMENT PROJECT/RCP?

DATA ENHANCEMENT PROJECT/RCP?

DATA ENHANCEMENT PROJECT/RCP?

DATA ENHANCEMENT PROJECT/RCP?

DATA ENHANCEMENT PROJECT/RCP?

DATA ENHANCEMENT PROJECT/RCP?

DATA ENHANCEMENT PROJECT/RCP?

Received by (signature)

Date/Time:

10/12/11

☐ 10-DAY

Other

Special Requirements or D.L's:

Project/RCP? ☐ Y ☒ N

DATA ENHANCEMENT PROJECT/RCP?

DATA ENHANCEMENT PROJECT/RCP?

DATA ENHANCEMENT PROJECT/RCP?

DATA ENHANCEMENT PROJECT/RCP?

DATA ENHANCEMENT PROJECT/RCP?

DATA ENHANCEMENT PROJECT/RCP?

DATA ENHANCEMENT PROJECT/RCP?

DATA ENHANCEMENT PROJECT/RCP?

DATA ENHANCEMENT PROJECT/RCP?

DATA ENHANCEMENT PROJECT/RCP?

DATA ENHANCEMENT PROJECT/RCP?

TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

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East Longmeadow, MA. 01028
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F: 413-525-6405
www.contestlabs.com



Sample Receipt Checklist

CLIENT NAME: ATC Associates RECEIVED BY: SD DATE: 10/12/11

- 1) Was the chain(s) of custody relinquished and signed? Yes No No CoC Included
2) Does the chain agree with the samples? Yes No
If not, explain:
3) Are all the samples in good condition? Yes No
If not, explain:

4) How were the samples received:

On Ice ☒ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☒

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 2.3

5) Are there Dissolved samples for the lab to filter? Yes No

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? Yes No

Who was notified _____ Date _____ Time _____

7) Location where samples are stored:

19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	<u>10</u>
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____
Bisulfate _____ # DI Water _____
Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

Do all samples have the proper Acid pH: Yes No N/A

Do all samples have the proper Base pH: Yes No N/A

Doc# 277

Rev. 1 May

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October 19, 2011

Jason Roback
ATC Associates - Woburn
600 W Cummings Park, Suite 5500
Woburn, MA 01801

Project Location: 168 Western Ave
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 11J0554

Enclosed are results of analyses for samples received by the laboratory on October 17, 2011. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Meghan E. Kelley
Project Manager

ATC Associates - Woburn
600 W Cummings Park, Suite 5500
Woburn, MA 01801
ATTN: Jason Roback

REPORT DATE: 10/19/2011

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 11J0554

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 168 Werstern Ave

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
S-1A	11J0554-01	Soil		SM 2540G SW-846 8082A	
S-2A	11J0554-02	Soil		SM 2540G SW-846 8082A	
S-3A	11J0554-03	Soil		SM 2540G SW-846 8082A	
S-4A	11J0554-04	Soil		SM 2540G SW-846 8082A	
S-5A	11J0554-05	Soil		SM 2540G SW-846 8082A	
S-6A	11J0554-06	Soil		SM 2540G SW-846 8082A	
S-7A	11J0554-07	Soil		SM 2540G SW-846 8082A	
S-8A	11J0554-08	Soil		SM 2540G SW-846 8082A	
S-9C	11J0554-09	Soil		SM 2540G SW-846 8082A	
S-10C	11J0554-10	Soil		SM 2540G SW-846 8082A	
S-11C	11J0554-11	Soil		SM 2540G SW-846 8082A	
S-12C	11J0554-12	Soil		SM 2540G SW-846 8082A	
S-13C	11J0554-13	Soil		SM 2540G SW-846 8082A	
S-14C	11J0554-14	Soil		SM 2540G SW-846 8082A	
S-15C	11J0554-15	Soil		SM 2540G SW-846 8082A	
S-16C	11J0554-16	Soil		SM 2540G SW-846 8082A	
S-17C	11J0554-17	Soil		SM 2540G SW-846 8082A	
S-18C	11J0554-18	Soil		SM 2540G SW-846 8082A	
S-19C	11J0554-19	Soil		SM 2540G SW-846 8082A	
S-20C	11J0554-20	Soil		SM 2540G SW-846 8082A	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

SW-846 8082A

Qualifications:

Matrix spike and/or spike duplicate recovery bias high due to contribution of other Aroclors present in the source sample.

Analyte & Samples(s) Qualified:

Aroclor-1016, Aroclor-1016 [2C], Aroclor-1260, Aroclor-1260 [2C]

B039300-MS1, B039300-MSD1

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Samples(s) Qualified:

Decachlorobiphenyl, Decachlorobiphenyl [2C], Tetrachloro-m-xylene, Tetrachloro-m-xylene [2C]

11J0554-01[S-1A], 11J0554-02[S-2A], 11J0554-03[S-3A]

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Daren J. Damboragian
Laboratory Manager

Project Location: 168 Werstern Ave

Sample Description:

Work Order: 11J0554

Date Received: 10/17/2011

Field Sample #: S-1A

Sampled: 10/14/2011 13:20

Sample ID: 11J0554-01

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	4.8	mg/Kg dry	40		SW-846 8082A	10/17/11	10/19/11 16:25	PJG
Aroclor-1221 [1]	ND	4.8	mg/Kg dry	40		SW-846 8082A	10/17/11	10/19/11 16:25	PJG
Aroclor-1232 [1]	ND	4.8	mg/Kg dry	40		SW-846 8082A	10/17/11	10/19/11 16:25	PJG
Aroclor-1242 [1]	ND	4.8	mg/Kg dry	40		SW-846 8082A	10/17/11	10/19/11 16:25	PJG
Aroclor-1248 [1]	ND	4.8	mg/Kg dry	40		SW-846 8082A	10/17/11	10/19/11 16:25	PJG
Aroclor-1254 [2]	36	4.8	mg/Kg dry	40		SW-846 8082A	10/17/11	10/19/11 16:25	PJG
Aroclor-1260 [1]	ND	4.8	mg/Kg dry	40		SW-846 8082A	10/17/11	10/19/11 16:25	PJG
Aroclor-1262 [1]	ND	4.8	mg/Kg dry	40		SW-846 8082A	10/17/11	10/19/11 16:25	PJG
Aroclor-1268 [1]	ND	4.8	mg/Kg dry	40		SW-846 8082A	10/17/11	10/19/11 16:25	PJG
Surrogates	% Recovery	Recovery Limits			Flag				
Decachlorobiphenyl [1]	*	30-150			S-01			10/19/11 16:25	
Decachlorobiphenyl [2]	*	30-150			S-01			10/19/11 16:25	
Tetrachloro-m-xylene [1]	*	30-150			S-01			10/19/11 16:25	
Tetrachloro-m-xylene [2]	*	30-150			S-01			10/19/11 16:25	

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Project Location: 168 Werstern Ave

Sample Description:

Work Order: 11J0554

Date Received: 10/17/2011

Sampled: 10/14/2011 13:20

Field Sample #: S-1A

Sample ID: 11J0554-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.1		% Wt	1		SM 2540G	10/17/11	10/18/11 13:57	MSS

Project Location: 168 Werstern Ave

Sample Description:

Work Order: 11J0554

Date Received: 10/17/2011

Field Sample #: S-2A

Sampled: 10/14/2011 13:25

Sample ID: 11J0554-02

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	13	mg/Kg dry	100		SW-846 8082A	10/17/11	10/19/11 16:39	PJG
Aroclor-1221 [1]	ND	13	mg/Kg dry	100		SW-846 8082A	10/17/11	10/19/11 16:39	PJG
Aroclor-1232 [1]	ND	13	mg/Kg dry	100		SW-846 8082A	10/17/11	10/19/11 16:39	PJG
Aroclor-1242 [1]	ND	13	mg/Kg dry	100		SW-846 8082A	10/17/11	10/19/11 16:39	PJG
Aroclor-1248 [1]	ND	13	mg/Kg dry	100		SW-846 8082A	10/17/11	10/19/11 16:39	PJG
Aroclor-1254 [2]	76	13	mg/Kg dry	100		SW-846 8082A	10/17/11	10/19/11 16:39	PJG
Aroclor-1260 [1]	ND	13	mg/Kg dry	100		SW-846 8082A	10/17/11	10/19/11 16:39	PJG
Aroclor-1262 [1]	ND	13	mg/Kg dry	100		SW-846 8082A	10/17/11	10/19/11 16:39	PJG
Aroclor-1268 [1]	ND	13	mg/Kg dry	100		SW-846 8082A	10/17/11	10/19/11 16:39	PJG
Surrogates	% Recovery	Recovery Limits			Flag				
Decachlorobiphenyl [1]	*	30-150			S-01			10/19/11 16:39	
Decachlorobiphenyl [2]	*	30-150			S-01			10/19/11 16:39	
Tetrachloro-m-xylene [1]	*	30-150			S-01			10/19/11 16:39	
Tetrachloro-m-xylene [2]	*	30-150			S-01			10/19/11 16:39	

Project Location: 168 Werstern Ave

Sample Description:

Work Order: 11J0554

Date Received: 10/17/2011

Sampled: 10/14/2011 13:25

Field Sample #: S-2A

Sample ID: 11J0554-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	78.6		% Wt	1		SM 2540G	10/17/11	10/18/11 13:57	MSS

Project Location: 168 Werstern Ave

Sample Description:

Work Order: 11J0554

Date Received: 10/17/2011

Field Sample #: S-3A

Sampled: 10/14/2011 13:30

Sample ID: 11J0554-03

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	2.9	mg/Kg dry	20		SW-846 8082A	10/17/11	10/19/11 16:53	PJG
Aroclor-1221 [1]	ND	2.9	mg/Kg dry	20		SW-846 8082A	10/17/11	10/19/11 16:53	PJG
Aroclor-1232 [1]	ND	2.9	mg/Kg dry	20		SW-846 8082A	10/17/11	10/19/11 16:53	PJG
Aroclor-1242 [1]	ND	2.9	mg/Kg dry	20		SW-846 8082A	10/17/11	10/19/11 16:53	PJG
Aroclor-1248 [1]	ND	2.9	mg/Kg dry	20		SW-846 8082A	10/17/11	10/19/11 16:53	PJG
Aroclor-1254 [2]	17	2.9	mg/Kg dry	20		SW-846 8082A	10/17/11	10/19/11 16:53	PJG
Aroclor-1260 [1]	ND	2.9	mg/Kg dry	20		SW-846 8082A	10/17/11	10/19/11 16:53	PJG
Aroclor-1262 [1]	ND	2.9	mg/Kg dry	20		SW-846 8082A	10/17/11	10/19/11 16:53	PJG
Aroclor-1268 [1]	ND	2.9	mg/Kg dry	20		SW-846 8082A	10/17/11	10/19/11 16:53	PJG
Surrogates	% Recovery	Recovery Limits			Flag				
Decachlorobiphenyl [1]	*	30-150			S-01			10/19/11 16:53	
Decachlorobiphenyl [2]	*	30-150			S-01			10/19/11 16:53	
Tetrachloro-m-xylene [1]	*	30-150			S-01			10/19/11 16:53	
Tetrachloro-m-xylene [2]	*	30-150			S-01			10/19/11 16:53	

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Project Location: 168 Werstern Ave

Sample Description:

Work Order: 11J0554

Date Received: 10/17/2011

Sampled: 10/14/2011 13:30

Field Sample #: S-3A

Sample ID: 11J0554-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	68.6		% Wt	1		SM 2540G	10/17/11	10/18/11 13:57	MSS

Project Location: 168 Werstern Ave

Sample Description:

Work Order: 11J0554

Date Received: 10/17/2011

Field Sample #: S-4A

Sampled: 10/14/2011 13:35

Sample ID: 11J0554-04

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 17:50	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 17:50	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 17:50	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 17:50	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 17:50	JMB
Aroclor-1254 [2]	0.15	0.10	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 17:50	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 17:50	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 17:50	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 17:50	JMB
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	93.4	30-150							
Decachlorobiphenyl [2]	106	30-150							
Tetrachloro-m-xylene [1]	107	30-150							
Tetrachloro-m-xylene [2]	112	30-150							

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Project Location: 168 Werstern Ave

Sample Description:

Work Order: 11J0554

Date Received: 10/17/2011

Sampled: 10/14/2011 13:35

Field Sample #: S-4A

Sample ID: 11J0554-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	95.0		% Wt	1		SM 2540G	10/17/11	10/18/11 13:57	MSS

Project Location: 168 Werstern Ave

Sample Description:

Work Order: 11J0554

Date Received: 10/17/2011

Sampled: 10/14/2011 13:40

Field Sample #: S-5A

Sample ID: 11J0554-05

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 18:04	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 18:04	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 18:04	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 18:04	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 18:04	JMB
Aroclor-1254 [2]	0.19	0.10	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 18:04	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 18:04	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 18:04	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 18:04	JMB
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	95.6	30-150							
Decachlorobiphenyl [2]	108	30-150							
Tetrachloro-m-xylene [1]	109	30-150							
Tetrachloro-m-xylene [2]	115	30-150							

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Project Location: 168 Werstern Ave

Sample Description:

Work Order: 11J0554

Date Received: 10/17/2011

Sampled: 10/14/2011 13:40

Field Sample #: S-5A

Sample ID: 11J0554-05

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	95.6		% Wt	1		SM 2540G	10/17/11	10/18/11 13:57	MSS

Project Location: 168 Werstern Ave

Sample Description:

Work Order: 11J0554

Date Received: 10/17/2011

Sampled: 10/14/2011 13:45

Field Sample #: S-6A

Sample ID: 11J0554-06

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 18:18	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 18:18	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 18:18	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 18:18	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 18:18	JMB
Aroclor-1254 [2]	0.55	0.11	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 18:18	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 18:18	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 18:18	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 18:18	JMB
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	95.5	30-150							
Decachlorobiphenyl [2]	109	30-150							
Tetrachloro-m-xylene [1]	111	30-150							
Tetrachloro-m-xylene [2]	118	30-150							

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Project Location: 168 Werstern Ave

Sample Description:

Work Order: 11J0554

Date Received: 10/17/2011

Sampled: 10/14/2011 13:45

Field Sample #: S-6A

Sample ID: 11J0554-06

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	92.4		% Wt	1		SM 2540G	10/17/11	10/18/11 13:57	MSS

Project Location: 168 Werstern Ave

Sample Description:

Work Order: 11J0554

Date Received: 10/17/2011

Sampled: 10/14/2011 13:50

Field Sample #: S-7A

Sample ID: 11J0554-07

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 18:32	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 18:32	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 18:32	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 18:32	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 18:32	JMB
Aroclor-1254 [2]	0.28	0.11	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 18:32	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 18:32	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 18:32	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 18:32	JMB
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	91.3	30-150							
Decachlorobiphenyl [2]	104	30-150							
Tetrachloro-m-xylene [1]	106	30-150							
Tetrachloro-m-xylene [2]	112	30-150							

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Project Location: 168 Werstern Ave

Sample Description:

Work Order: 11J0554

Date Received: 10/17/2011

Sampled: 10/14/2011 13:50

Field Sample #: S-7A

Sample ID: 11J0554-07

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.3		% Wt	1		SM 2540G	10/17/11	10/18/11 13:57	MSS

Project Location: 168 Werstern Ave

Sample Description:

Work Order: 11J0554

Date Received: 10/17/2011

Sampled: 10/14/2011 13:55

Field Sample #: S-8A

Sample ID: 11J0554-08

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 18:46	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 18:46	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 18:46	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 18:46	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 18:46	JMB
Aroclor-1254 [2]	0.58	0.11	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 18:46	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 18:46	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 18:46	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 18:46	JMB
Surrogates	% Recovery		Recovery Limits		Flag				
Decachlorobiphenyl [1]	93.3		30-150				10/18/11 18:46		
Decachlorobiphenyl [2]	106		30-150				10/18/11 18:46		
Tetrachloro-m-xylene [1]	117		30-150				10/18/11 18:46		
Tetrachloro-m-xylene [2]	123		30-150				10/18/11 18:46		

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Project Location: 168 Werstern Ave

Sample Description:

Work Order: 11J0554

Date Received: 10/17/2011

Sampled: 10/14/2011 13:55

Field Sample #: S-8A

Sample ID: 11J0554-08

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.9		% Wt	1		SM 2540G	10/17/11	10/18/11 13:57	MSS

Project Location: 168 Werstern Ave

Sample Description:

Work Order: 11J0554

Date Received: 10/17/2011

Field Sample #: S-9C

Sampled: 10/14/2011 14:20

Sample ID: 11J0554-09

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 19:01	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 19:01	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 19:01	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 19:01	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 19:01	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 19:01	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 19:01	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 19:01	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 19:01	JMB
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	92.2	30-150						10/18/11 19:01	
Decachlorobiphenyl [2]	105	30-150						10/18/11 19:01	
Tetrachloro-m-xylene [1]	104	30-150						10/18/11 19:01	
Tetrachloro-m-xylene [2]	108	30-150						10/18/11 19:01	

Project Location: 168 Werstern Ave

Sample Description:

Work Order: 11J0554

Date Received: 10/17/2011

Sampled: 10/14/2011 14:20

Field Sample #: S-9C

Sample ID: 11J0554-09

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	82.6		% Wt	1		SM 2540G	10/17/11	10/18/11 13:57	MSS

Project Location: 168 Werstern Ave

Sample Description:

Work Order: 11J0554

Date Received: 10/17/2011

Field Sample #: S-10C

Sampled: 10/14/2011 14:30

Sample ID: 11J0554-10

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 19:43	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 19:43	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 19:43	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 19:43	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 19:43	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 19:43	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 19:43	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 19:43	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 19:43	JMB
Surrogates		% Recovery	Recovery Limits		Flag				
Decachlorobiphenyl [1]		94.3	30-150					10/18/11 19:43	
Decachlorobiphenyl [2]		108	30-150					10/18/11 19:43	
Tetrachloro-m-xylene [1]		106	30-150					10/18/11 19:43	
Tetrachloro-m-xylene [2]		112	30-150					10/18/11 19:43	

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Project Location: 168 Werstern Ave

Sample Description:

Work Order: 11J0554

Date Received: 10/17/2011

Field Sample #: S-10C

Sampled: 10/14/2011 14:30

Sample ID: 11J0554-10

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	92.6		% Wt	1		SM 2540G	10/17/11	10/18/11 13:57	MSS

Project Location: 168 Werstern Ave

Sample Description:

Work Order: 11J0554

Date Received: 10/17/2011

Field Sample #: S-11C

Sampled: 10/14/2011 14:40

Sample ID: 11J0554-11

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 19:57	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 19:57	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 19:57	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 19:57	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 19:57	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 19:57	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 19:57	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 19:57	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 19:57	JMB
Surrogates	% Recovery		Recovery Limits		Flag				
Decachlorobiphenyl [1]	96.8		30-150				10/18/11 19:57		
Decachlorobiphenyl [2]	110		30-150				10/18/11 19:57		
Tetrachloro-m-xylene [1]	106		30-150				10/18/11 19:57		
Tetrachloro-m-xylene [2]	112		30-150				10/18/11 19:57		

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Project Location: 168 Werstern Ave

Sample Description:

Work Order: 11J0554

Date Received: 10/17/2011

Sampled: 10/14/2011 14:40

Field Sample #: S-11C

Sample ID: 11J0554-11

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	92.2		% Wt	1		SM 2540G	10/17/11	10/18/11 13:57	MSS

Project Location: 168 Werstern Ave

Sample Description:

Work Order: 11J0554

Date Received: 10/17/2011

Field Sample #: S-12C

Sampled: 10/14/2011 14:50

Sample ID: 11J0554-12

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 20:11	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 20:11	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 20:11	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 20:11	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 20:11	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 20:11	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 20:11	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 20:11	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 20:11	JMB
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	79.8	30-150							
Decachlorobiphenyl [2]	90.8	30-150							
Tetrachloro-m-xylene [1]	111	30-150							
Tetrachloro-m-xylene [2]	118	30-150							

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Project Location: 168 Werstern Ave

Sample Description:

Work Order: 11J0554

Date Received: 10/17/2011

Field Sample #: S-12C

Sampled: 10/14/2011 14:50

Sample ID: 11J0554-12

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	92.4		% Wt	1		SM 2540G	10/17/11	10/18/11 13:57	MSS

Project Location: 168 Werstern Ave

Sample Description:

Work Order: 11J0554

Date Received: 10/17/2011

Field Sample #: S-13C

Sampled: 10/14/2011 15:00

Sample ID: 11J0554-13

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 20:25	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 20:25	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 20:25	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 20:25	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 20:25	JMB
Aroclor-1254 [2]	0.84	0.11	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 20:25	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 20:25	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 20:25	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 20:25	JMB
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	98.5	30-150							
Decachlorobiphenyl [2]	112	30-150							
Tetrachloro-m-xylene [1]	108	30-150							
Tetrachloro-m-xylene [2]	112	30-150							

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Project Location: 168 Werstern Ave

Sample Description:

Work Order: 11J0554

Date Received: 10/17/2011

Field Sample #: S-13C

Sampled: 10/14/2011 15:00

Sample ID: 11J0554-13

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	92.0		% Wt	1		SM 2540G	10/17/11	10/18/11 13:57	MSS

Project Location: 168 Werstern Ave

Sample Description:

Work Order: 11J0554

Date Received: 10/17/2011

Sampled: 10/14/2011 15:10

Field Sample #: S-14C

Sample ID: 11J0554-14

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 20:40	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 20:40	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 20:40	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 20:40	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 20:40	JMB
Aroclor-1254 [2]	0.35	0.11	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 20:40	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 20:40	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 20:40	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 20:40	JMB
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	101	30-150							
Decachlorobiphenyl [2]	114	30-150							
Tetrachloro-m-xylene [1]	114	30-150							
Tetrachloro-m-xylene [2]	119	30-150							

Project Location: 168 Werstern Ave

Sample Description:

Work Order: 11J0554

Date Received: 10/17/2011

Sampled: 10/14/2011 15:10

Field Sample #: S-14C

Sample ID: 11J0554-14

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.5		% Wt	1		SM 2540G	10/17/11	10/18/11 13:57	MSS

Project Location: 168 Werstern Ave

Sample Description:

Work Order: 11J0554

Date Received: 10/17/2011

Field Sample #: S-15C

Sampled: 10/14/2011 15:20

Sample ID: 11J0554-15

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 20:54	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 20:54	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 20:54	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 20:54	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 20:54	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 20:54	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 20:54	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 20:54	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 20:54	JMB
Surrogates		% Recovery	Recovery Limits		Flag				
Decachlorobiphenyl [1]		105	30-150					10/18/11 20:54	
Decachlorobiphenyl [2]		117	30-150					10/18/11 20:54	
Tetrachloro-m-xylene [1]		111	30-150					10/18/11 20:54	
Tetrachloro-m-xylene [2]		117	30-150					10/18/11 20:54	

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Project Location: 168 Werstern Ave

Sample Description:

Work Order: 11J0554

Date Received: 10/17/2011

Field Sample #: S-15C

Sampled: 10/14/2011 15:20

Sample ID: 11J0554-15

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.3		% Wt	1		SM 2540G	10/17/11	10/18/11 13:57	MSS

Project Location: 168 Werstern Ave

Sample Description:

Work Order: 11J0554

Date Received: 10/17/2011

Sampled: 10/14/2011 15:30

Field Sample #: S-16C

Sample ID: 11J0554-16

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 21:08	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 21:08	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 21:08	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 21:08	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 21:08	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 21:08	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 21:08	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 21:08	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 21:08	JMB
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	103	30-150							
Decachlorobiphenyl [2]	115	30-150							
Tetrachloro-m-xylene [1]	110	30-150							
Tetrachloro-m-xylene [2]	118	30-150							

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Project Location: 168 Werstern Ave

Sample Description:

Work Order: 11J0554

Date Received: 10/17/2011

Sampled: 10/14/2011 15:30

Field Sample #: S-16C

Sample ID: 11J0554-16

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	95.9		% Wt	1		SM 2540G	10/17/11	10/18/11 13:57	MSS

Project Location: 168 Werstern Ave

Sample Description:

Work Order: 11J0554

Date Received: 10/17/2011

Field Sample #: S-17C

Sampled: 10/14/2011 15:40

Sample ID: 11J0554-17

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 21:22	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 21:22	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 21:22	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 21:22	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 21:22	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 21:22	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 21:22	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 21:22	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 21:22	JMB
Surrogates		% Recovery	Recovery Limits		Flag				
Decachlorobiphenyl [1]		109	30-150					10/18/11 21:22	
Decachlorobiphenyl [2]		121	30-150					10/18/11 21:22	
Tetrachloro-m-xylene [1]		114	30-150					10/18/11 21:22	
Tetrachloro-m-xylene [2]		120	30-150					10/18/11 21:22	

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Project Location: 168 Werstern Ave

Sample Description:

Work Order: 11J0554

Date Received: 10/17/2011

Sampled: 10/14/2011 15:40

Field Sample #: S-17C

Sample ID: 11J0554-17

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	91.5		% Wt	1		SM 2540G	10/17/11	10/18/11 13:57	MSS

Project Location: 168 Werstern Ave

Sample Description:

Work Order: 11J0554

Date Received: 10/17/2011

Field Sample #: S-18C

Sampled: 10/14/2011 15:50

Sample ID: 11J0554-18

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 21:36	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 21:36	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 21:36	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 21:36	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 21:36	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 21:36	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 21:36	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 21:36	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 21:36	JMB
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	96.1	30-150							
Decachlorobiphenyl [2]	108	30-150							
Tetrachloro-m-xylene [1]	111	30-150							
Tetrachloro-m-xylene [2]	117	30-150							

Project Location: 168 Werstern Ave

Sample Description:

Work Order: 11J0554

Date Received: 10/17/2011

Sampled: 10/14/2011 15:50

Field Sample #: S-18C

Sample ID: 11J0554-18

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	92.6		% Wt	1		SM 2540G	10/17/11	10/18/11 13:57	MSS

Project Location: 168 Werstern Ave

Sample Description:

Work Order: 11J0554

Date Received: 10/17/2011

Field Sample #: S-19C

Sampled: 10/14/2011 16:00

Sample ID: 11J0554-19

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 21:51	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 21:51	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 21:51	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 21:51	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 21:51	JMB
Aroclor-1254 [2]	0.27	0.10	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 21:51	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 21:51	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 21:51	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 21:51	JMB
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	95.5	30-150							
Decachlorobiphenyl [2]	107	30-150							
Tetrachloro-m-xylene [1]	115	30-150							
Tetrachloro-m-xylene [2]	123	30-150							

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Project Location: 168 Werstern Ave

Sample Description:

Work Order: 11J0554

Date Received: 10/17/2011

Field Sample #: S-19C

Sampled: 10/14/2011 16:00

Sample ID: 11J0554-19

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.3		% Wt	1		SM 2540G	10/17/11	10/18/11 13:57	MSS

Project Location: 168 Werstern Ave

Sample Description:

Work Order: 11J0554

Date Received: 10/17/2011

Field Sample #: S-20C

Sampled: 10/14/2011 16:10

Sample ID: 11J0554-20

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 22:05	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 22:05	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 22:05	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 22:05	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 22:05	JMB
Aroclor-1254 [2]	1.3	0.11	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 22:05	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 22:05	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 22:05	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/17/11	10/18/11 22:05	JMB
Surrogates	% Recovery		Recovery Limits		Flag				
Decachlorobiphenyl [1]	91.1		30-150				10/18/11 22:05		
Decachlorobiphenyl [2]	103		30-150				10/18/11 22:05		
Tetrachloro-m-xylene [1]	107		30-150				10/18/11 22:05		
Tetrachloro-m-xylene [2]	113		30-150				10/18/11 22:05		

Project Location: 168 Werstern Ave

Sample Description:

Work Order: 11J0554

Date Received: 10/17/2011

Sampled: 10/14/2011 16:10

Field Sample #: S-20C

Sample ID: 11J0554-20

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	90.6		% Wt	1		SM 2540G	10/17/11	10/18/11 13:57	MSS

Sample Extraction Data**Prep Method: % Solids-SM 2540G**

Lab Number [Field ID]	Batch	Date
11J0554-01 [S-1A]	B039305	10/17/11
11J0554-02 [S-2A]	B039305	10/17/11
11J0554-03 [S-3A]	B039305	10/17/11
11J0554-04 [S-4A]	B039305	10/17/11
11J0554-05 [S-5A]	B039305	10/17/11
11J0554-06 [S-6A]	B039305	10/17/11
11J0554-07 [S-7A]	B039305	10/17/11
11J0554-08 [S-8A]	B039305	10/17/11
11J0554-09 [S-9C]	B039305	10/17/11
11J0554-10 [S-10C]	B039305	10/17/11
11J0554-11 [S-11C]	B039305	10/17/11
11J0554-12 [S-12C]	B039305	10/17/11
11J0554-13 [S-13C]	B039305	10/17/11
11J0554-14 [S-14C]	B039305	10/17/11
11J0554-15 [S-15C]	B039305	10/17/11
11J0554-16 [S-16C]	B039305	10/17/11
11J0554-17 [S-17C]	B039305	10/17/11
11J0554-18 [S-18C]	B039305	10/17/11
11J0554-19 [S-19C]	B039305	10/17/11
11J0554-20 [S-20C]	B039305	10/17/11

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
11J0554-01 [S-1A]	B039300	10.0	50.0	10/17/11
11J0554-02 [S-2A]	B039300	10.0	50.0	10/17/11
11J0554-03 [S-3A]	B039300	10.2	50.0	10/17/11
11J0554-04 [S-4A]	B039300	10.3	50.0	10/17/11
11J0554-05 [S-5A]	B039300	10.3	50.0	10/17/11
11J0554-06 [S-6A]	B039300	10.2	50.0	10/17/11
11J0554-07 [S-7A]	B039300	10.3	50.0	10/17/11
11J0554-08 [S-8A]	B039300	10.3	50.0	10/17/11
11J0554-09 [S-9C]	B039300	10.2	50.0	10/17/11
11J0554-10 [S-10C]	B039300	10.1	50.0	10/17/11
11J0554-11 [S-11C]	B039300	10.1	50.0	10/17/11
11J0554-12 [S-12C]	B039300	10.1	50.0	10/17/11
11J0554-13 [S-13C]	B039300	10.2	50.0	10/17/11
11J0554-14 [S-14C]	B039300	10.1	50.0	10/17/11
11J0554-15 [S-15C]	B039300	10.1	50.0	10/17/11
11J0554-16 [S-16C]	B039300	10.1	50.0	10/17/11
11J0554-17 [S-17C]	B039300	10.3	50.0	10/17/11
11J0554-18 [S-18C]	B039300	10.2	50.0	10/17/11
11J0554-19 [S-19C]	B039300	10.1	50.0	10/17/11
11J0554-20 [S-20C]	B039300	10.1	50.0	10/17/11

QUALITY CONTROL
Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B039300 - SW-846 3540C
Blank (B039300-BLK1)

Prepared: 10/17/11 Analyzed: 10/18/11

Aroclor-1016	ND	0.10	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1221	ND	0.10	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1232	ND	0.10	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1242	ND	0.10	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1248	ND	0.10	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1254	ND	0.10	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1260	ND	0.10	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1262	ND	0.10	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1268	ND	0.10	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.10	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.202		mg/Kg wet	0.200		101	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.224		mg/Kg wet	0.200		112	30-150			
Surrogate: Tetrachloro-m-xylene	0.211		mg/Kg wet	0.200		105	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.222		mg/Kg wet	0.200		111	30-150			

LCS (B039300-BS1)

Prepared: 10/17/11 Analyzed: 10/18/11

Aroclor-1016	0.23	0.10	mg/Kg wet	0.200		114	40-140			
Aroclor-1016 [2C]	0.23	0.10	mg/Kg wet	0.200		116	40-140			
Aroclor-1260	0.22	0.10	mg/Kg wet	0.200		111	40-140			
Aroclor-1260 [2C]	0.24	0.10	mg/Kg wet	0.200		118	40-140			
Surrogate: Decachlorobiphenyl	0.209		mg/Kg wet	0.200		104	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.231		mg/Kg wet	0.200		116	30-150			
Surrogate: Tetrachloro-m-xylene	0.214		mg/Kg wet	0.200		107	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.223		mg/Kg wet	0.200		112	30-150			

LCS Dup (B039300-BSD1)

Prepared: 10/17/11 Analyzed: 10/18/11

Aroclor-1016	0.24	0.10	mg/Kg wet	0.200		122	40-140	6.26	30	
Aroclor-1016 [2C]	0.24	0.10	mg/Kg wet	0.200		118	40-140	2.14	30	
Aroclor-1260	0.23	0.10	mg/Kg wet	0.200		114	40-140	2.36	30	
Aroclor-1260 [2C]	0.24	0.10	mg/Kg wet	0.200		120	40-140	1.84	30	
Surrogate: Decachlorobiphenyl	0.212		mg/Kg wet	0.200		106	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.234		mg/Kg wet	0.200		117	30-150			
Surrogate: Tetrachloro-m-xylene	0.224		mg/Kg wet	0.200		112	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.232		mg/Kg wet	0.200		116	30-150			

QUALITY CONTROL
Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B039300 - SW-846 3540C

Matrix Spike (B039300-MS1)		Source: 11J0554-01		Prepared: 10/17/11 Analyzed: 10/18/11						
Aroclor-1016	0.51	0.12	mg/Kg dry	0.235	0.0	217	*	40-140		MS-21
Aroclor-1016 [2C]	3.8	0.12	mg/Kg dry	0.235	0.0	1610	*	40-140		MS-21
Aroclor-1260	12	0.12	mg/Kg dry	0.235	0.0	5120	*	40-140		MS-21
Aroclor-1260 [2C]	12	0.12	mg/Kg dry	0.235	0.0	5160	*	40-140		MS-21
Surrogate: Decachlorobiphenyl	0.233		mg/Kg dry	0.235		99.0		30-150		
Surrogate: Decachlorobiphenyl [2C]	0.262		mg/Kg dry	0.235		111		30-150		
Surrogate: Tetrachloro-m-xylene	0.270		mg/Kg dry	0.235		115		30-150		
Surrogate: Tetrachloro-m-xylene [2C]	0.276		mg/Kg dry	0.235		117		30-150		
Matrix Spike Dup (B039300-MSD1)		Source: 11J0554-01		Prepared: 10/17/11 Analyzed: 10/18/11						
Aroclor-1016	0.54	0.12	mg/Kg dry	0.235	0.0	228	*	40-140	5.00	50 MS-21
Aroclor-1016 [2C]	4.5	0.12	mg/Kg dry	0.235	0.0	1900	*	40-140	16.7	50 MS-21
Aroclor-1260	14	0.12	mg/Kg dry	0.235	0.0	5770	*	40-140	11.8	50 MS-21
Aroclor-1260 [2C]	14	0.12	mg/Kg dry	0.235	0.0	5740	*	40-140	10.6	50 MS-21
Surrogate: Decachlorobiphenyl	0.235		mg/Kg dry	0.235		100		30-150		
Surrogate: Decachlorobiphenyl [2C]	0.264		mg/Kg dry	0.235		112		30-150		
Surrogate: Tetrachloro-m-xylene	0.266		mg/Kg dry	0.235		113		30-150		
Surrogate: Tetrachloro-m-xylene [2C]	0.270		mg/Kg dry	0.235		115		30-150		

QUALITY CONTROL
Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B039305 - % Solids

Duplicate (B039305-DUP5)		Source: 11J0554-01		Prepared: 10/17/11 Analyzed: 10/18/11						
% Solids	86.0		% Wt		84.1			2.23	20	
Duplicate (B039305-DUP6)		Source: 11J0554-12		Prepared: 10/17/11 Analyzed: 10/18/11						
% Solids	91.6		% Wt		92.4			0.870	20	

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
MS-21	Matrix spike and/or spike duplicate recovery bias high due to contribution of other Aroclors present in the source sample.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC
Aroclor-1016 [2C]	CT,NH,NY,ME,NC
Aroclor-1221	CT,NH,NY,ME,NC
Aroclor-1221 [2C]	CT,NH,NY,ME,NC
Aroclor-1232	CT,NH,NY,ME,NC
Aroclor-1232 [2C]	CT,NH,NY,ME,NC
Aroclor-1242	CT,NH,NY,ME,NC
Aroclor-1242 [2C]	CT,NH,NY,ME,NC
Aroclor-1248	CT,NH,NY,ME,NC
Aroclor-1248 [2C]	CT,NH,NY,ME,NC
Aroclor-1254	CT,NH,NY,ME,NC
Aroclor-1254 [2C]	CT,NH,NY,ME,NC
Aroclor-1260	CT,NH,NY,ME,NC
Aroclor-1260 [2C]	CT,NH,NY,ME,NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	American Industrial Hygiene Association	100033	01/1/2012
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Public Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2012
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2012
RI	Rhode Island Department of Health	LAO00112	12/30/2011
NC	North Carolina Div. of Water Quality	652	12/31/2011
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2012
ME	State of Maine	2011028	06/9/2013



con-test
ANALYTICAL LABORATORY

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Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 SPRUCE ST, 2ND FLOOR
EAST LONGMEADOW, MA 01028

Page 1 of 1

Company Name: ATC Associates

Telephone: (781) 404-1419

Address: 600 W. Cummings Rd. #5450

Project # 60-21241, 0014 (2)

Client PO # 1150554

Attention: J. ROBACK

DATA DELIVERY (check one):
☒ FAX ☒ EMAIL ☐ WEBSITE CLIENT

Project Location: 1106 WESTERN AVE.

Fax #: 781-404-1419

Sampled By: J. ROBACK

Email: jason.robback@atcassociates.com
Format: ☒ EXCEL ☐ PDF ☐ GIS KEY

Proposal Provided? (For Billing purposes) ☐ yes ☒ no

State Form Required? ☐ yes ☒ no

Field ID	Sample Description	Lab #	Start Date/Time	Stop Date/Time	Comp. site	Grab	*Matrix Code	Conc. Code
01	S-1A	13:20	10/14/14				A	S
02	S-2A	13:25						
03	S-3A	13:30						
04	S-4A	13:35						
05	S-5A	13:40						
06	S-6A	13:45						
07	S-7A	13:50						
08	S-8A	13:55						

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:

H - High; M - Medium; L - Low; C - Clean; U - Unknown

Turnaround **

Detection Limit Requirements

*Matrix Code:

**Preservation Codes:

Relinquished by: (signature) [Signature] Date/Time: 12/17/11, 1255

☐ 7-Day
☐ 10-Day
☐ Other

Regulations? None

GW = groundwater
WW = wastewater
DW = drinking water
A = air
S = soil/solid
SL = sludge
O = other

I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
O = Other

Received by: (signature) [Signature] Date/Time: 12/17/11, 1844

☐ *24-Hr ☒ *48-Hr
☐ *72-Hr ☐ *4-Day

Day Enhancement Project/RCP? ☐ Y ☒ N
Special Requirement of DLS: For MERTAS KEY

Relinquished by: (signature) [Signature] Date/Time: 12/17/11, 19:30

☐ *24-Hr ☒ *48-Hr
☐ *72-Hr ☐ *4-Day

For MERTAS KEY

Received by: (signature) [Signature] Date/Time: 12/17/11, 19:30

☐ *24-Hr ☒ *48-Hr
☐ *72-Hr ☐ *4-Day

For MERTAS KEY

** TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.



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ANALYTICAL LABORATORY

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CHAIN OF CUSTODY RECORD

39 SPRUCE ST, 2ND FLOOR
EAST LONGMEADOW, MA 01028

Page 3 of 1

Company Name: ATC ASSOCIATES
Address: 600 W. COMMUNISTON AVE. #5450
WOBURN, MA 01801
Attention: J. ROBACK
Project # 60,21524,0014(2)
Client PO # 1150554

Telephone: (617) 404-1419
Email: jason.robback@ataassociates.com
Format: EXCEL PDF GIS KEY

DATA DELIVERY (check one):
☒ FAX ☐ EMAIL ☐ WEBSITE CLIENT
Fax # : _____

Project Location: 168 WESTERN AVE.
Sampled By: J. ROBACK

Proposal Provided? (For Billing purposes)

☐ yes ☐ no

State Form Required?

☐ yes ☐ no

OTHER

Matrix | Conc. Code | Code

PC 8082 w/ SCORING

ANALYSIS REQUESTED

Cont Code: A=amber glass G=glass P=plastic ST=sterile V=vial S=summary can T=tedlar bag O=Other

Field ID	Sample Description	Lab #	Start Date/Time	Stop Date/Time	Comp- osite	Grab	*Matrix Conc. Code	Code
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17 S-17C 15:40 10/14/14

18 S-18C 15:50

19 S-19C 16:00

20 S-20C 16:10

Laboratory Comments:

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:

H - High; M - Medium; L - Low; C - Clean; U - Unknown

Turnaround **

Relinquished by: (signature) [Signature] Date/Time: 10/17/11 12:55

Received by: (signature) [Signature] Date/Time: 10/17/11 12:55

Relinquished by: (signature) _____ Date/Time: _____

Received by: (signature) [Signature] Date/Time: 10/17/11 12:55

Detection Limit Requirements

Regulations?

Data Enhancement Project/RCP? ☐ Y ☒ N

Special Requirements or DL's: ≤ 1 ppm

*Matrix Code: GW= groundwater WW= wastewater DW= drinking water A= air S= soil/solid SL= sludge O= other

**Preservation Codes:

I= Iced X= Na hydroxide

H= HCL T= Na thiosulfate

M= Methanol N= Nitric Acid S= Sulfuric Acid B= Sodium bisulfate O= Other

** TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

AIHA, NELAP & WBE/DBE Certified

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com



Sample Receipt Checklist

CLIENT NAME: ATC Associates RECEIVED BY: C.C-S DATE: 10/17/11

- 1) Was the chain(s) of custody relinquished and signed? Yes No No CoC Included
2) Does the chain agree with the samples? Yes No
If not, explain:
3) Are all the samples in good condition? Yes No
If not, explain:

4) How were the samples received:

On Ice ☒ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☒

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 3.6°C

5) Are there Dissolved samples for the lab to filter? Yes No

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? Yes No

Who was notified _____ Date _____ Time _____

7) Location where samples are stored:

19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz <u>amber</u> clear jar	<u>3</u>
500 mL Amber		4 oz amber/clear jar	<u>8</u>
250 mL Amber (8oz amber)	<u>5</u>	2 oz amber/clear jar	<u>1</u>
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____
Bisulfate _____ # DI Water _____
Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

Do all samples have the proper Acid pH: Yes No N/A _____

Doc# 277

Do all samples have the proper Base pH: Yes No N/A _____

Rev. 1 May 2

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11J0554-01 S-1A

Analyte	Results		%RPD
Aroclor-1254 [2C]	36	32.76528	9.41

11J0554-02 S-2A

Analyte	Results		%RPD
Aroclor-1254 [2C]	76	67.28499	12.2

11J0554-03 S-3A

Analyte	Results		%RPD
Aroclor-1254 [2C]	17	15.13891	11.6

11J0554-04 S-4A

Analyte	Results		%RPD
Aroclor-1254 [2C]	0.15	0.1179663	23.9
Surrogates			
Decachlorobiphenyl	0.191	0.2168574	12.7
Tetrachloro-m-xylene	0.219	0.228932	4.43

11J0554-05 S-5A

Analyte	Results		%RPD
Aroclor-1254 [2C]	0.19	0.1421934	28.8
Surrogates			
Decachlorobiphenyl	0.194	0.2202848	12.7
Tetrachloro-m-xylene	0.220	0.2332382	5.84

11J0554-06 S-6A

Analyte	Results		%RPD
Aroclor-1254 [2C]	0.55	0.5349769	2.77
Surrogates			
Decachlorobiphenyl	0.203	0.2314691	13.1
Tetrachloro-m-xylene	0.236	0.2511459	6.22

11J0554-07 S-7A

Analyte	Results		%RPD
Aroclor-1254 [2C]	0.28	0.2450451	13.3
Surrogates			
Decachlorobiphenyl	0.198	0.2266985	13.5
Tetrachloro-m-xylene	0.231	0.2445776	5.71

11J0554-08 S-8A

Analyte	Results		%RPD
Aroclor-1254 [2C]	0.58	0.4673192	21.5
Surrogates			
Tetrachloro-m-xylene	0.265	0.2777671	4.7
Decachlorobiphenyl	0.211	0.2395594	12.7

11J0554-09 S-9C

Analyte	Results		%RPD
Surrogates			
Decachlorobiphenyl	0.219	0.2494006	13
Tetrachloro-m-xylene	0.247	0.2563322	3.71

11J0554-10 S-10C

Analyte	Results		%RPD
Surrogates			
Decachlorobiphenyl	0.202	0.2300911	13
Tetrachloro-m-xylene	0.226	0.2401632	6.08

11J0554-11 S-11C

Analyte	Results	%RPD
Surrogates		

Tetrachloro-m-xylene	0.228	0.2404319	5.31
Decachlorobiphenyl	0.208	0.2366466	12.9

11J0554-12 S-12C

Analyte	Results		%RPD
Surrogates			
Decachlorobiphenyl	0.171	0.1946659	12.9
Tetrachloro-m-xylene	0.237	0.2530378	6.55

11J0554-13 S-13C

Analyte	Results		%RPD
Aroclor-1254 [2C]	0.84	0.8219682	2.17
<u>Surrogates</u>			
Decachlorobiphenyl	0.210	0.2383312	12.6
Tetrachloro-m-xylene	0.229	0.2396739	4.55

11J0554-14 S-14C

Analyte	Results		%RPD
Aroclor-1254 [2C]	0.35	0.3136014	11
<u>Surrogates</u>			
Decachlorobiphenyl	0.223	0.251983	12.2
Tetrachloro-m-xylene	0.252	0.2643398	4.78

11J0554-15 S-15C

Analyte	Results		%RPD
Surrogates			
Tetrachloro-m-xylene	0.234	0.2449576	4.58
Decachlorobiphenyl	0.220	0.2458186	11.1

11J0554-16 S-16C

Analyte	Results		%RPD
Surrogates			
Decachlorobiphenyl	0.213	0.2376547	10.9
Tetrachloro-m-xylene	0.228	0.2428375	6.3

11J0554-17 S-17C

Analyte	Results		%RPD
Surrogates			
Decachlorobiphenyl	0.231	0.2573558	10.8
Tetrachloro-m-xylene	0.243	0.2553345	4.95

11J0554-18 S-18C

Analyte	Results		%RPD
Surrogates			
Decachlorobiphenyl	0.204	0.2290158	11.6
Tetrachloro-m-xylene	0.236	0.2484595	5.14

11J0554-19 S-19C

Analyte	Results		%RPD
Aroclor-1254 [2C]	0.27	0.2296074	16.2
<u>Surrogates</u>			
Decachlorobiphenyl	0.200	0.2249562	11.7
Tetrachloro-m-xylene	0.242	0.2587014	6.67

11J0554-20 S-20C

Analyte	Results		%RPD
Aroclor-1254 [2C]	1.3	1.21727	6.57
<u>Surrogates</u>			
Decachlorobiphenyl	0.199	0.2247667	12.2
Tetrachloro-m-xylene	0.234	0.2471477	5.47

B039300-BLK1 Blank

Analyte	Results		%RPD
---------	---------	--	------

Surrogates			
Tetrachloro-m-xylene	0.211	0.222175	5.16
Decachlorobiphenyl	0.202	0.224015	10.3

B039300-BS1 LCS

Analyte	Results		%RPD
Aroclor-1016	0.23	0.231765	0.764
Aroclor-1260	0.22	0.235475	6.8
Surrogates			
Tetrachloro-m-xylene	0.214	0.22308	4.15
Decachlorobiphenyl	0.209	0.23147	10.2

B039300-BSD1 LCS Dup

Analyte	Results		%RPD
Aroclor-1016	0.24	0.23677	1.35
Aroclor-1260	0.23	0.23985	4.19
Surrogates			
Decachlorobiphenyl	0.212	0.234295	9.99
Tetrachloro-m-xylene	0.224	0.231825	3.43

B039300-MS1 Matrix Spike

Analyte	Results		%RPD
Aroclor-1016	0.51	3.784215	152
Aroclor-1260	12	12.14174	1.17
Surrogates			
Decachlorobiphenyl	0.233	0.2619819	11.7
Tetrachloro-m-xylene	0.270	0.2759268	2.17

B039300-MSD1 Matrix Spike Dup

Analyte	Results		%RPD
Aroclor-1016	0.54	4.47553	157
Aroclor-1260	14	13.50685	3.59
Surrogates			
Tetrachloro-m-xylene	0.266	0.2696401	1.36
Decachlorobiphenyl	0.235	0.2636771	11.5

November 1, 2011

Jason Roback
ATC Associates - Woburn
600 W Cummings Park, Suite 5500
Woburn, MA 01801

Project Location: 168 Western Ave.
Client Job Number:
Project Number: 060.21865.0014
Laboratory Work Order Number: 11J0973

Enclosed are results of analyses for samples received by the laboratory on October 26, 2011. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, reading "Meghan E. Kelley". The signature is written in a cursive, flowing style.

Meghan E. Kelley
Project Manager

ATC Associates - Woburn
600 W Cummings Park, Suite 5500
Woburn, MA 01801
ATTN: Jason Roback

REPORT DATE: 11/1/2011

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 060.21865.0014

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 11J0973

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 168 Western Ave.

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
S-1A-2'	11J0973-01	Soil		SM 2540G SW-846 8082A	
S-2A-2'	11J0973-02	Soil		SM 2540G SW-846 8082A	
S-21	11J0973-03	Soil		SM 2540G SW-846 8082A	
S-22	11J0973-04	Soil		SM 2540G SW-846 8082A	
S-23	11J0973-05	Soil		SM 2540G SW-846 8082A	
S-24	11J0973-06	Soil		SM 2540G SW-846 8082A	
S-25	11J0973-07	Soil		SM 2540G SW-846 8082A	
S-26	11J0973-08	Soil		SM 2540G SW-846 8082A	
S-28	11J0973-09	Soil		SM 2540G SW-846 8082A	
S-27	11J0973-10	Soil		SM 2540G SW-846 8082A	
S-20A	11J0973-11	Soil		SM 2540G SW-846 8082A	
S-20B	11J0973-12	Soil		SM 2540G SW-846 8082A	
S-19A	11J0973-13	Soil		SM 2540G SW-846 8082A	
S-19B	11J0973-14	Soil		SM 2540G SW-846 8082A	
S-20D	11J0973-15	Soil		SM 2540G SW-846 8082A	
Base B-Interior-36"-B	11J0973-16	Soil		SM 2540G SW-846 8082A	
Base B-Interior-36"-D	11J0973-17	Soil		SM 2540G SW-846 8082A	
Base B-Interior-36"-E	11J0973-19	Soil		SM 2540G SW-846 8082A	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

SW-846 8082A

Qualifications:

Matrix spike and/or spike duplicate recovery bias high due to contribution of other Aroclors present in the source sample.

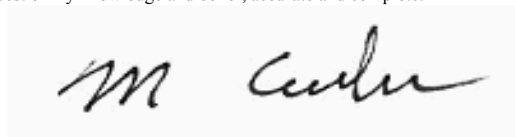
Analyte & Samples(s) Qualified:

Aroclor-1016, Aroclor-1016 [2C], Aroclor-1260, Aroclor-1260 [2C]

B039952-MS1, B039952-MSD1

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Michael A. Erickson
Laboratory Director

Project Location: 168 Western Ave.

Sample Description:

Work Order: 11J0973

Date Received: 10/26/2011

Field Sample #: S-1A-2'

Sampled: 10/25/2011 00:00

Sample ID: 11J0973-01

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.21	mg/Kg dry	2		SW-846 8082A	10/26/11	10/28/11 14:01	JMB
Aroclor-1221 [1]	ND	0.21	mg/Kg dry	2		SW-846 8082A	10/26/11	10/28/11 14:01	JMB
Aroclor-1232 [1]	ND	0.21	mg/Kg dry	2		SW-846 8082A	10/26/11	10/28/11 14:01	JMB
Aroclor-1242 [1]	ND	0.21	mg/Kg dry	2		SW-846 8082A	10/26/11	10/28/11 14:01	JMB
Aroclor-1248 [1]	ND	0.21	mg/Kg dry	2		SW-846 8082A	10/26/11	10/28/11 14:01	JMB
Aroclor-1254 [1]	1.7	0.21	mg/Kg dry	2		SW-846 8082A	10/26/11	10/28/11 14:01	JMB
Aroclor-1260 [1]	ND	0.21	mg/Kg dry	2		SW-846 8082A	10/26/11	10/28/11 14:01	JMB
Aroclor-1262 [1]	ND	0.21	mg/Kg dry	2		SW-846 8082A	10/26/11	10/28/11 14:01	JMB
Aroclor-1268 [1]	ND	0.21	mg/Kg dry	2		SW-846 8082A	10/26/11	10/28/11 14:01	JMB
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	94.6	30-150							
Decachlorobiphenyl [2]	91.1	30-150							
Tetrachloro-m-xylene [1]	113	30-150							
Tetrachloro-m-xylene [2]	118	30-150							

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Project Location: 168 Western Ave.

Sample Description:

Work Order: 11J0973

Date Received: 10/26/2011

Sampled: 10/25/2011 00:00

Field Sample #: S-1A-2'

Sample ID: 11J0973-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.3		% Wt	1		SM 2540G	10/26/11	10/27/11 12:56	VAF

Project Location: 168 Western Ave.

Sample Description:

Work Order: 11J0973

Date Received: 10/26/2011

Field Sample #: S-2A-2'

Sampled: 10/25/2011 00:00

Sample ID: 11J0973-02

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 19:37	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 19:37	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 19:37	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 19:37	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 19:37	JMB
Aroclor-1254 [2]	0.35	0.10	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 19:37	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 19:37	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 19:37	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 19:37	JMB
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	87.4	30-150							
Decachlorobiphenyl [2]	86.1	30-150							
Tetrachloro-m-xylene [1]	111	30-150							
Tetrachloro-m-xylene [2]	111	30-150							

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Project Location: 168 Western Ave.

Sample Description:

Work Order: 11J0973

Date Received: 10/26/2011

Sampled: 10/25/2011 00:00

Field Sample #: S-2A-2'

Sample ID: 11J0973-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.4		% Wt	1		SM 2540G	10/26/11	10/27/11 12:56	VAF

Project Location: 168 Western Ave.

Sample Description:

Work Order: 11J0973

Date Received: 10/26/2011

Field Sample #: S-21

Sampled: 10/25/2011 00:00

Sample ID: 11J0973-03

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.13	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 19:51	JMB
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 19:51	JMB
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 19:51	JMB
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 19:51	JMB
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 19:51	JMB
Aroclor-1254 [1]	1.5	0.13	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 19:51	JMB
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 19:51	JMB
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 19:51	JMB
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 19:51	JMB
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	74.6	30-150							
Decachlorobiphenyl [2]	74.7	30-150							
Tetrachloro-m-xylene [1]	109	30-150							
Tetrachloro-m-xylene [2]	108	30-150							

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Project Location: 168 Western Ave.

Sample Description:

Work Order: 11J0973

Date Received: 10/26/2011

Sampled: 10/25/2011 00:00

Field Sample #: S-21

Sample ID: 11J0973-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	79.7		% Wt	1		SM 2540G	10/26/11	10/27/11 12:56	VAF

Project Location: 168 Western Ave.

Sample Description:

Work Order: 11J0973

Date Received: 10/26/2011

Field Sample #: S-22

Sampled: 10/25/2011 00:00

Sample ID: 11J0973-04

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.14	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 20:06	JMB
Aroclor-1221 [1]	ND	0.14	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 20:06	JMB
Aroclor-1232 [1]	ND	0.14	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 20:06	JMB
Aroclor-1242 [1]	ND	0.14	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 20:06	JMB
Aroclor-1248 [1]	ND	0.14	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 20:06	JMB
Aroclor-1254 [2]	1.3	0.14	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 20:06	JMB
Aroclor-1260 [1]	ND	0.14	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 20:06	JMB
Aroclor-1262 [1]	ND	0.14	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 20:06	JMB
Aroclor-1268 [1]	ND	0.14	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 20:06	JMB
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	76.8	30-150							
Decachlorobiphenyl [2]	77.0	30-150							
Tetrachloro-m-xylene [1]	112	30-150							
Tetrachloro-m-xylene [2]	112	30-150							

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Project Location: 168 Western Ave.

Sample Description:

Work Order: 11J0973

Date Received: 10/26/2011

Sampled: 10/25/2011 00:00

Field Sample #: S-22

Sample ID: 11J0973-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	69.7		% Wt	1		SM 2540G	10/26/11	10/27/11 12:56	VAF

Project Location: 168 Western Ave.

Sample Description:

Work Order: 11J0973

Date Received: 10/26/2011

Field Sample #: S-23

Sampled: 10/25/2011 00:00

Sample ID: 11J0973-05

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 20:48	JMB
Aroclor-1221 [1]	ND	0.20	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 20:48	JMB
Aroclor-1232 [1]	ND	0.20	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 20:48	JMB
Aroclor-1242 [1]	ND	0.20	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 20:48	JMB
Aroclor-1248 [1]	ND	0.20	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 20:48	JMB
Aroclor-1254 [2]	0.43	0.20	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 20:48	JMB
Aroclor-1260 [1]	ND	0.20	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 20:48	JMB
Aroclor-1262 [1]	ND	0.20	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 20:48	JMB
Aroclor-1268 [1]	ND	0.20	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 20:48	JMB
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	78.1	30-150							
Decachlorobiphenyl [2]	78.5	30-150							
Tetrachloro-m-xylene [1]	107	30-150							
Tetrachloro-m-xylene [2]	105	30-150							

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Project Location: 168 Western Ave.

Sample Description:

Work Order: 11J0973

Date Received: 10/26/2011

Sampled: 10/25/2011 00:00

Field Sample #: S-23

Sample ID: 11J0973-05

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	50.4		% Wt	1		SM 2540G	10/26/11	10/27/11 12:56	VAF

Project Location: 168 Western Ave.

Sample Description:

Work Order: 11J0973

Date Received: 10/26/2011

Field Sample #: S-24

Sampled: 10/25/2011 00:00

Sample ID: 11J0973-06

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.14	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 21:02	JMB
Aroclor-1221 [1]	ND	0.14	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 21:02	JMB
Aroclor-1232 [1]	ND	0.14	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 21:02	JMB
Aroclor-1242 [1]	ND	0.14	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 21:02	JMB
Aroclor-1248 [1]	ND	0.14	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 21:02	JMB
Aroclor-1254 [2]	0.28	0.14	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 21:02	JMB
Aroclor-1260 [1]	ND	0.14	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 21:02	JMB
Aroclor-1262 [1]	ND	0.14	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 21:02	JMB
Aroclor-1268 [1]	ND	0.14	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 21:02	JMB
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	74.8	30-150							
Decachlorobiphenyl [2]	76.2	30-150							
Tetrachloro-m-xylene [1]	114	30-150							
Tetrachloro-m-xylene [2]	112	30-150							

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Project Location: 168 Western Ave.

Sample Description:

Work Order: 11J0973

Date Received: 10/26/2011

Sampled: 10/25/2011 00:00

Field Sample #: S-24

Sample ID: 11J0973-06

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	68.1		% Wt	1		SM 2540G	10/26/11	10/27/11 12:56	VAF

Project Location: 168 Western Ave.

Sample Description:

Work Order: 11J0973

Date Received: 10/26/2011

Field Sample #: S-25

Sampled: 10/25/2011 00:00

Sample ID: 11J0973-07

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 21:17	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 21:17	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 21:17	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 21:17	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 21:17	JMB
Aroclor-1254 [2]	0.17	0.11	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 21:17	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 21:17	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 21:17	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 21:17	JMB
Surrogates	% Recovery		Recovery Limits		Flag				
Decachlorobiphenyl [1]	83.3		30-150				10/27/11 21:17		
Decachlorobiphenyl [2]	86.4		30-150				10/27/11 21:17		
Tetrachloro-m-xylene [1]	110		30-150				10/27/11 21:17		
Tetrachloro-m-xylene [2]	108		30-150				10/27/11 21:17		

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Project Location: 168 Western Ave.

Sample Description:

Work Order: 11J0973

Date Received: 10/26/2011

Sampled: 10/25/2011 00:00

Field Sample #: S-25

Sample ID: 11J0973-07

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.4		% Wt	1		SM 2540G	10/26/11	10/27/11 12:56	VAF

Project Location: 168 Western Ave.

Sample Description:

Work Order: 11J0973

Date Received: 10/26/2011

Field Sample #: S-26

Sampled: 10/25/2011 00:00

Sample ID: 11J0973-08

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 21:31	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 21:31	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 21:31	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 21:31	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 21:31	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 21:31	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 21:31	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 21:31	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 21:31	JMB
Surrogates		% Recovery	Recovery Limits		Flag				
Decachlorobiphenyl [1]		86.8	30-150					10/27/11 21:31	
Decachlorobiphenyl [2]		85.8	30-150					10/27/11 21:31	
Tetrachloro-m-xylene [1]		112	30-150					10/27/11 21:31	
Tetrachloro-m-xylene [2]		109	30-150					10/27/11 21:31	

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Project Location: 168 Western Ave.

Sample Description:

Work Order: 11J0973

Date Received: 10/26/2011

Sampled: 10/25/2011 00:00

Field Sample #: S-26

Sample ID: 11J0973-08

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.7		% Wt	1		SM 2540G	10/26/11	10/27/11 12:56	VAF

Project Location: 168 Western Ave.

Sample Description:

Work Order: 11J0973

Date Received: 10/26/2011

Field Sample #: S-28

Sampled: 10/25/2011 00:00

Sample ID: 11J0973-09

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 21:45	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 21:45	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 21:45	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 21:45	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 21:45	JMB
Aroclor-1254 [2]	0.16	0.10	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 21:45	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 21:45	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 21:45	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 21:45	JMB
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	90.3	30-150							
Decachlorobiphenyl [2]	91.7	30-150							
Tetrachloro-m-xylene [1]	114	30-150							
Tetrachloro-m-xylene [2]	106	30-150							

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Project Location: 168 Western Ave.

Sample Description:

Work Order: 11J0973

Date Received: 10/26/2011

Sampled: 10/25/2011 00:00

Field Sample #: S-28

Sample ID: 11J0973-09

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	97.0		% Wt	1		SM 2540G	10/26/11	10/27/11 12:56	VAF

Project Location: 168 Western Ave.

Sample Description:

Work Order: 11J0973

Date Received: 10/26/2011

Field Sample #: S-27

Sampled: 10/25/2011 00:00

Sample ID: 11J0973-10

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 21:59	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 21:59	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 21:59	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 21:59	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 21:59	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 21:59	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 21:59	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 21:59	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 21:59	JMB
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	85.9	30-150							
Decachlorobiphenyl [2]	86.9	30-150							
Tetrachloro-m-xylene [1]	113	30-150							
Tetrachloro-m-xylene [2]	113	30-150							

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Project Location: 168 Western Ave.

Sample Description:

Work Order: 11J0973

Date Received: 10/26/2011

Sampled: 10/25/2011 00:00

Field Sample #: S-27

Sample ID: 11J0973-10

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	96.8		% Wt	1		SM 2540G	10/26/11	10/27/11 12:56	VAF

Project Location: 168 Western Ave.

Sample Description:

Work Order: 11J0973

Date Received: 10/26/2011

Field Sample #: S-20A

Sampled: 10/25/2011 00:00

Sample ID: 11J0973-11

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.44	mg/Kg dry	4		SW-846 8082A	10/26/11	10/28/11 14:15	JMB
Aroclor-1221 [1]	ND	0.44	mg/Kg dry	4		SW-846 8082A	10/26/11	10/28/11 14:15	JMB
Aroclor-1232 [1]	ND	0.44	mg/Kg dry	4		SW-846 8082A	10/26/11	10/28/11 14:15	JMB
Aroclor-1242 [1]	ND	0.44	mg/Kg dry	4		SW-846 8082A	10/26/11	10/28/11 14:15	JMB
Aroclor-1248 [1]	ND	0.44	mg/Kg dry	4		SW-846 8082A	10/26/11	10/28/11 14:15	JMB
Aroclor-1254 [2]	2.3	0.44	mg/Kg dry	4		SW-846 8082A	10/26/11	10/28/11 14:15	JMB
Aroclor-1260 [1]	ND	0.44	mg/Kg dry	4		SW-846 8082A	10/26/11	10/28/11 14:15	JMB
Aroclor-1262 [1]	ND	0.44	mg/Kg dry	4		SW-846 8082A	10/26/11	10/28/11 14:15	JMB
Aroclor-1268 [1]	ND	0.44	mg/Kg dry	4		SW-846 8082A	10/26/11	10/28/11 14:15	JMB
Surrogates	% Recovery		Recovery Limits		Flag				
Decachlorobiphenyl [1]	105		30-150				10/28/11 14:15		
Decachlorobiphenyl [2]	101		30-150				10/28/11 14:15		
Tetrachloro-m-xylene [1]	128		30-150				10/28/11 14:15		
Tetrachloro-m-xylene [2]	130		30-150				10/28/11 14:15		

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Project Location: 168 Western Ave.

Sample Description:

Work Order: 11J0973

Date Received: 10/26/2011

Sampled: 10/25/2011 00:00

Field Sample #: S-20A

Sample ID: 11J0973-11

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.8		% Wt	1		SM 2540G	10/26/11	10/27/11 12:56	VAF

Project Location: 168 Western Ave.

Sample Description:

Work Order: 11J0973

Date Received: 10/26/2011

Field Sample #: S-20B

Sampled: 10/25/2011 00:00

Sample ID: 11J0973-12

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 22:27	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 22:27	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 22:27	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 22:27	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 22:27	JMB
Aroclor-1254 [2]	1.1	0.11	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 22:27	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 22:27	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 22:27	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 22:27	JMB
Surrogates	% Recovery		Recovery Limits		Flag				
Decachlorobiphenyl [1]	83.0		30-150				10/27/11 22:27		
Decachlorobiphenyl [2]	83.8		30-150				10/27/11 22:27		
Tetrachloro-m-xylene [1]	113		30-150				10/27/11 22:27		
Tetrachloro-m-xylene [2]	111		30-150				10/27/11 22:27		

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Project Location: 168 Western Ave.

Sample Description:

Work Order: 11J0973

Date Received: 10/26/2011

Sampled: 10/25/2011 00:00

Field Sample #: S-20B

Sample ID: 11J0973-12

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.7		% Wt	1		SM 2540G	10/26/11	10/27/11 12:56	VAF

Project Location: 168 Western Ave.

Sample Description:

Work Order: 11J0973

Date Received: 10/26/2011

Field Sample #: S-19A

Sampled: 10/25/2011 00:00

Sample ID: 11J0973-13

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 22:42	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 22:42	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 22:42	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 22:42	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 22:42	JMB
Aroclor-1254 [2]	0.39	0.11	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 22:42	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 22:42	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 22:42	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 22:42	JMB
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	87.2	30-150							
Decachlorobiphenyl [2]	86.5	30-150							
Tetrachloro-m-xylene [1]	113	30-150							
Tetrachloro-m-xylene [2]	110	30-150							

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Project Location: 168 Western Ave.

Sample Description:

Work Order: 11J0973

Date Received: 10/26/2011

Sampled: 10/25/2011 00:00

Field Sample #: S-19A

Sample ID: 11J0973-13

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.9		% Wt	1		SM 2540G	10/26/11	10/27/11 12:56	VAF

Project Location: 168 Western Ave.

Sample Description:

Work Order: 11J0973

Date Received: 10/26/2011

Sampled: 10/25/2011 00:00

Field Sample #: S-19B

Sample ID: 11J0973-14

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 22:56	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 22:56	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 22:56	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 22:56	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 22:56	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 22:56	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 22:56	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 22:56	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 22:56	JMB
Surrogates	% Recovery		Recovery Limits		Flag				
Decachlorobiphenyl [1]	89.1		30-150				10/27/11 22:56		
Decachlorobiphenyl [2]	89.2		30-150				10/27/11 22:56		
Tetrachloro-m-xylene [1]	113		30-150				10/27/11 22:56		
Tetrachloro-m-xylene [2]	110		30-150				10/27/11 22:56		

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Project Location: 168 Western Ave.

Sample Description:

Work Order: 11J0973

Date Received: 10/26/2011

Sampled: 10/25/2011 00:00

Field Sample #: S-19B

Sample ID: 11J0973-14

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.5		% Wt	1		SM 2540G	10/26/11	10/27/11 12:56	VAF

Project Location: 168 Western Ave.

Sample Description:

Work Order: 11J0973

Date Received: 10/26/2011

Field Sample #: S-20D

Sampled: 10/25/2011 00:00

Sample ID: 11J0973-15

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 23:10	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 23:10	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 23:10	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 23:10	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 23:10	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 23:10	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 23:10	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 23:10	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	10/26/11	10/27/11 23:10	JMB
Surrogates	% Recovery		Recovery Limits		Flag				
Decachlorobiphenyl [1]	83.0		30-150				10/27/11 23:10		
Decachlorobiphenyl [2]	82.3		30-150				10/27/11 23:10		
Tetrachloro-m-xylene [1]	111		30-150				10/27/11 23:10		
Tetrachloro-m-xylene [2]	111		30-150				10/27/11 23:10		

Project Location: 168 Western Ave.

Sample Description:

Work Order: 11J0973

Date Received: 10/26/2011

Sampled: 10/25/2011 00:00

Field Sample #: S-20D

Sample ID: 11J0973-15

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	91.9		% Wt	1		SM 2540G	10/26/11	10/27/11 12:56	VAF

Project Location: 168 Western Ave.

Sample Description:

Work Order: 11J0973

Date Received: 10/26/2011

Field Sample #: Base B-Interior-36"-B

Sampled: 10/25/2011 00:00

Sample ID: 11J0973-16

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	10/26/11	10/29/11 9:42	PJG
Aroclor-1221 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	10/26/11	10/29/11 9:42	PJG
Aroclor-1232 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	10/26/11	10/29/11 9:42	PJG
Aroclor-1242 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	10/26/11	10/29/11 9:42	PJG
Aroclor-1248 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	10/26/11	10/29/11 9:42	PJG
Aroclor-1254 [1]	2.3	0.45	mg/Kg	5		SW-846 8082A	10/26/11	10/29/11 9:42	PJG
Aroclor-1260 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	10/26/11	10/29/11 9:42	PJG
Aroclor-1262 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	10/26/11	10/29/11 9:42	PJG
Aroclor-1268 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	10/26/11	10/29/11 9:42	PJG
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	97.6	30-150							
Decachlorobiphenyl [2]	90.7	30-150							
Tetrachloro-m-xylene [1]	111	30-150							
Tetrachloro-m-xylene [2]	113	30-150							

Project Location: 168 Western Ave.

Sample Description:

Work Order: 11J0973

Date Received: 10/26/2011

Field Sample #: Base B-Interior-36"-B

Sampled: 10/25/2011 00:00

Sample ID: 11J0973-16

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	98.3		% Wt	1		SM 2540G	10/27/11	11/1/11 13:32	EAH

Project Location: 168 Western Ave.

Sample Description:

Work Order: 11J0973

Date Received: 10/26/2011

Field Sample #: Base B-Interior-36"-D

Sampled: 10/25/2011 00:00

Sample ID: 11J0973-17

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	10/26/11	10/29/11 4:01	PJG
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	10/26/11	10/29/11 4:01	PJG
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	10/26/11	10/29/11 4:01	PJG
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	10/26/11	10/29/11 4:01	PJG
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	10/26/11	10/29/11 4:01	PJG
Aroclor-1254 [1]	1.0	0.10	mg/Kg	1		SW-846 8082A	10/26/11	10/29/11 4:01	PJG
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	10/26/11	10/29/11 4:01	PJG
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	10/26/11	10/29/11 4:01	PJG
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	10/26/11	10/29/11 4:01	PJG
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	91.7	30-150						10/29/11 4:01	
Decachlorobiphenyl [2]	83.5	30-150						10/29/11 4:01	
Tetrachloro-m-xylene [1]	97.1	30-150						10/29/11 4:01	
Tetrachloro-m-xylene [2]	92.4	30-150						10/29/11 4:01	

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Project Location: 168 Western Ave.

Sample Description:

Work Order: 11J0973

Date Received: 10/26/2011

Field Sample #: Base B-Interior-36"-D

Sampled: 10/25/2011 00:00

Sample ID: 11J0973-17

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	97.9		% Wt	1		SM 2540G	10/27/11	11/1/11 13:32	EAH

Project Location: 168 Western Ave.

Sample Description:

Work Order: 11J0973

Date Received: 10/26/2011

Field Sample #: Base B-Interior-36"-E

Sampled: 10/25/2011 00:00

Sample ID: 11J0973-19

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	10/26/11	10/29/11 4:14	PJG
Aroclor-1221 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	10/26/11	10/29/11 4:14	PJG
Aroclor-1232 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	10/26/11	10/29/11 4:14	PJG
Aroclor-1242 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	10/26/11	10/29/11 4:14	PJG
Aroclor-1248 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	10/26/11	10/29/11 4:14	PJG
Aroclor-1254 [1]	0.61	0.095	mg/Kg	1		SW-846 8082A	10/26/11	10/29/11 4:14	PJG
Aroclor-1260 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	10/26/11	10/29/11 4:14	PJG
Aroclor-1262 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	10/26/11	10/29/11 4:14	PJG
Aroclor-1268 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	10/26/11	10/29/11 4:14	PJG
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	100	30-150							
Decachlorobiphenyl [2]	91.8	30-150							
Tetrachloro-m-xylene [1]	109	30-150							
Tetrachloro-m-xylene [2]	104	30-150							

Project Location: 168 Western Ave.

Sample Description:

Work Order: 11J0973

Date Received: 10/26/2011

Field Sample #: Base B-Interior-36"-E

Sampled: 10/25/2011 00:00

Sample ID: 11J0973-19

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	96.2		% Wt	1		SM 2540G	10/27/11	11/1/11 13:32	EAH

Sample Extraction Data**Prep Method: % Solids-SM 2540G**

Lab Number [Field ID]	Batch	Date
11J0973-01 [S-1A-2']	B039974	10/26/11
11J0973-02 [S-2A-2']	B039974	10/26/11
11J0973-03 [S-21]	B039974	10/26/11
11J0973-04 [S-22]	B039974	10/26/11
11J0973-05 [S-23]	B039974	10/26/11
11J0973-06 [S-24]	B039974	10/26/11
11J0973-07 [S-25]	B039974	10/26/11
11J0973-08 [S-26]	B039974	10/26/11
11J0973-09 [S-28]	B039974	10/26/11
11J0973-10 [S-27]	B039974	10/26/11
11J0973-11 [S-20A]	B039974	10/26/11
11J0973-12 [S-20B]	B039974	10/26/11
11J0973-13 [S-19A]	B039974	10/26/11
11J0973-14 [S-19B]	B039974	10/26/11
11J0973-15 [S-20D]	B039974	10/26/11

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
11J0973-16 [Base B-Interior-36"-B]	B039983	10/27/11
11J0973-17 [Base B-Interior-36"-D]	B039983	10/27/11
11J0973-19 [Base B-Interior-36"-E]	B039983	10/27/11

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
11J0973-16 [Base B-Interior-36"-B]	B039954	2.20	10.0	10/26/11
11J0973-17 [Base B-Interior-36"-D]	B039954	2.00	10.0	10/26/11
11J0973-19 [Base B-Interior-36"-E]	B039954	2.10	10.0	10/26/11

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
11J0973-01 [S-1A-2']	B039952	10.1	50.0	10/26/11
11J0973-02 [S-2A-2']	B039952	10.2	50.0	10/26/11
11J0973-03 [S-21]	B039952	10.0	50.0	10/26/11
11J0973-04 [S-22]	B039952	10.0	50.0	10/26/11
11J0973-05 [S-23]	B039952	10.1	50.0	10/26/11
11J0973-06 [S-24]	B039952	10.2	50.0	10/26/11
11J0973-07 [S-25]	B039952	10.0	50.0	10/26/11
11J0973-08 [S-26]	B039952	10.0	50.0	10/26/11
11J0973-09 [S-28]	B039952	10.1	50.0	10/26/11
11J0973-10 [S-27]	B039952	10.2	50.0	10/26/11
11J0973-11 [S-20A]	B039952	10.1	50.0	10/26/11
11J0973-12 [S-20B]	B039952	10.2	50.0	10/26/11
11J0973-13 [S-19A]	B039952	10.0	50.0	10/26/11
11J0973-14 [S-19B]	B039952	10.0	50.0	10/26/11
11J0973-15 [S-20D]	B039952	10.1	50.0	10/26/11

QUALITY CONTROL
Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B039952 - SW-846 3540C
Blank (B039952-BLK1)

Prepared: 10/26/11 Analyzed: 10/27/11

Aroclor-1016	ND	0.10	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1221	ND	0.10	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1232	ND	0.10	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1242	ND	0.10	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1248	ND	0.10	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1254	ND	0.10	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1260	ND	0.10	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1262	ND	0.10	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1268	ND	0.10	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.10	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.175		mg/Kg wet	0.200		87.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.177		mg/Kg wet	0.200		88.4	30-150			
Surrogate: Tetrachloro-m-xylene	0.215		mg/Kg wet	0.200		108	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.225		mg/Kg wet	0.200		112	30-150			

LCS (B039952-BS1)

Prepared: 10/26/11 Analyzed: 10/27/11

Aroclor-1016	0.24	0.10	mg/Kg wet	0.200		118	40-140			
Aroclor-1016 [2C]	0.23	0.10	mg/Kg wet	0.200		116	40-140			
Aroclor-1260	0.19	0.10	mg/Kg wet	0.200		96.1	40-140			
Aroclor-1260 [2C]	0.21	0.10	mg/Kg wet	0.200		105	40-140			
Surrogate: Decachlorobiphenyl	0.173		mg/Kg wet	0.200		86.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.173		mg/Kg wet	0.200		86.7	30-150			
Surrogate: Tetrachloro-m-xylene	0.213		mg/Kg wet	0.200		106	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.223		mg/Kg wet	0.200		111	30-150			

LCS Dup (B039952-BSD1)

Prepared: 10/26/11 Analyzed: 10/27/11

Aroclor-1016	0.25	0.10	mg/Kg wet	0.200		123	40-140	4.22	30	
Aroclor-1016 [2C]	0.24	0.10	mg/Kg wet	0.200		119	40-140	3.11	30	
Aroclor-1260	0.20	0.10	mg/Kg wet	0.200		101	40-140	5.11	30	
Aroclor-1260 [2C]	0.22	0.10	mg/Kg wet	0.200		110	40-140	4.72	30	
Surrogate: Decachlorobiphenyl	0.180		mg/Kg wet	0.200		89.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.181		mg/Kg wet	0.200		90.3	30-150			
Surrogate: Tetrachloro-m-xylene	0.216		mg/Kg wet	0.200		108	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.222		mg/Kg wet	0.200		111	30-150			

QUALITY CONTROL
Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B039952 - SW-846 3540C

Matrix Spike (B039952-MS1)		Source: 11J0973-01		Prepared: 10/26/11 Analyzed: 10/27/11						
Aroclor-1016	0.45	0.11	mg/Kg dry	0.214	0.0	210	*	40-140		MS-21
Aroclor-1016 [2C]	0.47	0.11	mg/Kg dry	0.214	0.0	218	*	40-140		MS-21
Aroclor-1260	0.99	0.11	mg/Kg dry	0.214	0.0	461	*	40-140		MS-21
Aroclor-1260 [2C]	0.91	0.11	mg/Kg dry	0.214	0.0	424	*	40-140		MS-21
Surrogate: Decachlorobiphenyl	0.172		mg/Kg dry	0.214		80.1		30-150		
Surrogate: Decachlorobiphenyl [2C]	0.170		mg/Kg dry	0.214		79.2		30-150		
Surrogate: Tetrachloro-m-xylene	0.256		mg/Kg dry	0.214		119		30-150		
Surrogate: Tetrachloro-m-xylene [2C]	0.247		mg/Kg dry	0.214		115		30-150		

Matrix Spike Dup (B039952-MSD1)		Source: 11J0973-01		Prepared: 10/26/11 Analyzed: 10/27/11						
Aroclor-1016	0.37	0.11	mg/Kg dry	0.214	0.0	173	*	40-140	19.6	50 MS-21
Aroclor-1016 [2C]	0.37	0.11	mg/Kg dry	0.214	0.0	173	*	40-140	22.9	50 MS-21
Aroclor-1260	0.68	0.11	mg/Kg dry	0.214	0.0	317	*	40-140	37.0	50 MS-21
Aroclor-1260 [2C]	0.64	0.11	mg/Kg dry	0.214	0.0	297	*	40-140	35.3	50 MS-21
Surrogate: Decachlorobiphenyl	0.190		mg/Kg dry	0.214		88.5		30-150		
Surrogate: Decachlorobiphenyl [2C]	0.188		mg/Kg dry	0.214		87.6		30-150		
Surrogate: Tetrachloro-m-xylene	0.257		mg/Kg dry	0.214		120		30-150		
Surrogate: Tetrachloro-m-xylene [2C]	0.250		mg/Kg dry	0.214		116		30-150		

Batch B039954 - SW-846 3540C

Blank (B039954-BLK1)				Prepared: 10/26/11 Analyzed: 10/29/11						
Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	1.11		mg/Kg	1.00		111		30-150		
Surrogate: Decachlorobiphenyl [2C]	1.02		mg/Kg	1.00		102		30-150		
Surrogate: Tetrachloro-m-xylene	1.09		mg/Kg	1.00		109		30-150		
Surrogate: Tetrachloro-m-xylene [2C]	1.04		mg/Kg	1.00		104		30-150		

QUALITY CONTROL
Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B039954 - SW-846 3540C
LCS (B039954-BS1)

Prepared: 10/26/11 Analyzed: 10/29/11

Aroclor-1016	0.26	0.10	mg/Kg	0.250		105	40-140			
Aroclor-1016 [2C]	0.23	0.10	mg/Kg	0.250		90.9	40-140			
Aroclor-1260	0.26	0.10	mg/Kg	0.250		103	40-140			
Aroclor-1260 [2C]	0.25	0.10	mg/Kg	0.250		98.0	40-140			
Surrogate: Decachlorobiphenyl	1.11		mg/Kg	1.00		111	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.03		mg/Kg	1.00		103	30-150			
Surrogate: Tetrachloro-m-xylene	1.10		mg/Kg	1.00		110	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.04		mg/Kg	1.00		104	30-150			

LCS Dup (B039954-BSD1)

Prepared: 10/26/11 Analyzed: 10/29/11

Aroclor-1016	0.27	0.10	mg/Kg	0.250		109	40-140	3.79	30	
Aroclor-1016 [2C]	0.23	0.10	mg/Kg	0.250		92.6	40-140	1.84	30	
Aroclor-1260	0.26	0.10	mg/Kg	0.250		104	40-140	0.544	30	
Aroclor-1260 [2C]	0.25	0.10	mg/Kg	0.250		101	40-140	3.38	30	
Surrogate: Decachlorobiphenyl	1.08		mg/Kg	1.00		108	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.01		mg/Kg	1.00		101	30-150			
Surrogate: Tetrachloro-m-xylene	1.06		mg/Kg	1.00		106	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.01		mg/Kg	1.00		101	30-150			

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B039974 - % Solids

Duplicate (B039974-DUP4)		Source: 11J0973-01		Prepared: 10/26/11 Analyzed: 10/27/11						
% Solids	94.8		% Wt		93.3			1.59	20	
Duplicate (B039974-DUP5)		Source: 11J0973-11		Prepared: 10/26/11 Analyzed: 10/27/11						
% Solids	89.7		% Wt		89.8			0.111	20	

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
MS-21	Matrix spike and/or spike duplicate recovery bias high due to contribution of other Aroclors present in the source sample.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8082A in Product/Solid</i>	
Aroclor-1016	CT,NH,NY,ME,NC
Aroclor-1016 [2C]	CT,NH,NY,ME,NC
Aroclor-1221	CT,NH,NY,ME,NC
Aroclor-1221 [2C]	CT,NH,NY,ME,NC
Aroclor-1232	CT,NH,NY,ME,NC
Aroclor-1232 [2C]	CT,NH,NY,ME,NC
Aroclor-1242	CT,NH,NY,ME,NC
Aroclor-1242 [2C]	CT,NH,NY,ME,NC
Aroclor-1248	CT,NH,NY,ME,NC
Aroclor-1248 [2C]	CT,NH,NY,ME,NC
Aroclor-1254	CT,NH,NY,ME,NC
Aroclor-1254 [2C]	CT,NH,NY,ME,NC
Aroclor-1260	CT,NH,NY,ME,NC
Aroclor-1260 [2C]	CT,NH,NY,ME,NC
<i>SW-846 8082A in Soil</i>	
Aroclor-1016	CT,NH,NY,ME,NC
Aroclor-1016 [2C]	CT,NH,NY,ME,NC
Aroclor-1221	CT,NH,NY,ME,NC
Aroclor-1221 [2C]	CT,NH,NY,ME,NC
Aroclor-1232	CT,NH,NY,ME,NC
Aroclor-1232 [2C]	CT,NH,NY,ME,NC
Aroclor-1242	CT,NH,NY,ME,NC
Aroclor-1242 [2C]	CT,NH,NY,ME,NC
Aroclor-1248	CT,NH,NY,ME,NC
Aroclor-1248 [2C]	CT,NH,NY,ME,NC
Aroclor-1254	CT,NH,NY,ME,NC
Aroclor-1254 [2C]	CT,NH,NY,ME,NC
Aroclor-1260	CT,NH,NY,ME,NC
Aroclor-1260 [2C]	CT,NH,NY,ME,NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	01/1/2012
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Public Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2012
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2012
RI	Rhode Island Department of Health	LAO00112	12/30/2011
NC	North Carolina Div. of Water Quality	652	12/31/2011
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2012
ME	State of Maine	2011028	06/9/2013



Phone: 413-525-2332
Fax: 413-525-6405

Email: info@contestlabs.com
www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 SPRUCE ST, 2ND FLOOR
EAST LONGMEADOW, MA 01028

Company Name:

AIC ASSOCIATES

Address:

600 W. COMMUNDOES BL. #5450
WOBURN, MA 01801

Attention:

J. ROBACK

Project Location:

168 WESTERN AVE.

Sampled By:

J. ROBACK

Proposal Provided? (For Billing purposes)

☐ yes ☐ no

State Form Required?

☐ yes ☒ no

Client PO #

1150973

DATA DELIVERY (check one):

☒ FAX ☒ EMAIL ☐ WEBSITE CLIENT

Fax #:

Email: jacob.robback@astassociates.com

Format:

☒ EXCEL ☐ PDF ☐ GIS KEY

☐ OTHER

Date Sampled

Start Date/Time

Stop Date/Time

Comp-
osite

Grab

*Matrix | Conc.
Code | Code

PCB 8082 w/ SOX 4LET

10/25/11

2

5

0

7

17

18

19

10/25/11

2

5

0

7

10/25/11

2

5

18

19

10/25/11

2

5

0

7

10/25/11

2

5

7

19

10/25/11

2

5

0

7

10/25/11

2

5

7

10/25/11

2

Laboratory Comments:

do not run per client FIC 10/25/11

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:

H - High; M - Medium; L - Low; C - Clean; U - Unknown

Turnaround **

☐ 7-Day

☐ 10-Day

☐ Other

☒ RUSH

☐ 24-Hr

☐ 72-Hr

☐ 4-Day

Detection Limit Requirements

Regulations?

Data Enhancement Project/RCP? ☐ Y ☒ N

Special Requirements or D.L.s:

5 ppm

SL = sludge

O = other

O = Other

**Preservation Codes:

I = Iced

H = HCL

M = Methanol

N = Nitric Acid

S = Sulfuric Acid

B = Sodium bisulfate

O = Other

ANALYSIS REQUESTED

-Cont. Code:

A=amber glass

G=glass

P=plastic

ST=sterile

V= vial

S=summa can

T=tedlar bag

O=Other

Client Comments:

of containers
**Preserv
-Cont. Code

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com



Sample Receipt Checklist

CLIENT NAME: ATC RECEIVED BY: C-C-S DATE: 10/26/11

1) Was the chain(s) of custody relinquished and signed? Yes No No CoC Included

2) Does the chain agree with the samples? Yes No
If not, explain:

3) Are all the samples in good condition? Yes No
If not, explain:

4) How were the samples received:

On Ice ☒ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☒

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 3.8°C

5) Are there Dissolved samples for the lab to filter? Yes No

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? Yes No

Who was notified _____ Date _____ Time _____

7) Location where samples are stored:

19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)	<u>15</u>	2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	<u>4</u>
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____
Bisulfate _____ # DI Water _____
Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

Do all samples have the proper Acid pH: Yes No N/A

Do all samples have the proper Base pH: Yes No N/A

Doc# 277

Rev. 1 May 2011

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Meghan Kelley

From: Jason Roback [jason.roback@atcassociates.com]
Sent: Wednesday, October 26, 2011 4:45 PM
To: 'Meghan Kelley'
Cc: Theresa Ferrentino
Subject: 168 Western Ave-RUSH analysis
Attachments: 20111026164459368.pdf

Importance: High

Hi Meghan-

My client would like to cancel the analysis on one of the 19 RUSH samples. The Sample is: Base B-Interior-6"-E. Please hold this sample for now. I have attached a revised Chain for your reference. Please let me know if you were able to cancel it, or if it was already extracted.

Thanks.

-J

Jason M. Roback, CHMM | Project Manager | ATC Associates Inc. | Woburn, Massachusetts
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From:
Sent: Wednesday, October 26, 2011 4:35 PM
To: Jason Roback
Cc:
Subject: 168 Western Avenue

Jason:

I believe you spoke with Chris, but briefly, following your responses, my recommendation is that we:

1. Cancel Base B-Interior-6"-E, which was on a rush (I think this is extraneous, as we have a 36" being run "outside" of this that will "box" in any results?); and

Thanks,
Joe

November 3, 2011

Jason Roback
ATC Associates - Woburn
600 W Cummings Park, Suite 5500
Woburn, MA 01801

Project Location: 168 Western Ave.
Client Job Number:
Project Number: 060.21865.0014
Laboratory Work Order Number: 11J0970

Enclosed are results of analyses for samples received by the laboratory on October 26, 2011. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, reading "Meghan E. Kelley". The signature is written in a cursive, flowing style.

Meghan E. Kelley
Project Manager

ATC Associates - Woburn
600 W Cummings Park, Suite 5500
Woburn, MA 01801
ATTN: Jason Roback

REPORT DATE: 11/3/2011

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 060.21865.0014

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 11J0970

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 168 Western Ave.

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
S-1A-3'	11J0970-01	Soil		SM 2540G SW-846 8082A	
S-21-2'	11J0970-03	Soil		SM 2540G SW-846 8082A	
S-22-2'	11J0970-04	Soil		SM 2540G SW-846 8082A	
S-20D-20"	11J0970-12	Soil		SM 2540G SW-846 8082A	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

A handwritten signature in black ink, appearing to read "Daren J. Damboragian", is displayed within a light gray rectangular box.

Daren J. Damboragian
Laboratory Manager

Project Location: 168 Western Ave.

Sample Description:

Work Order: 11J0970

Date Received: 10/26/2011

Field Sample #: S-1A-3'

Sampled: 10/25/2011 00:00

Sample ID: 11J0970-01

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.42	mg/Kg dry	4		SW-846 8082A	10/26/11	10/28/11 13:31	JMB
Aroclor-1221 [1]	ND	0.42	mg/Kg dry	4		SW-846 8082A	10/26/11	10/28/11 13:31	JMB
Aroclor-1232 [1]	ND	0.42	mg/Kg dry	4		SW-846 8082A	10/26/11	10/28/11 13:31	JMB
Aroclor-1242 [1]	ND	0.42	mg/Kg dry	4		SW-846 8082A	10/26/11	10/28/11 13:31	JMB
Aroclor-1248 [1]	ND	0.42	mg/Kg dry	4		SW-846 8082A	10/26/11	10/28/11 13:31	JMB
Aroclor-1254 [1]	2.6	0.42	mg/Kg dry	4		SW-846 8082A	10/26/11	10/28/11 13:31	JMB
Aroclor-1260 [1]	ND	0.42	mg/Kg dry	4		SW-846 8082A	10/26/11	10/28/11 13:31	JMB
Aroclor-1262 [1]	ND	0.42	mg/Kg dry	4		SW-846 8082A	10/26/11	10/28/11 13:31	JMB
Aroclor-1268 [1]	ND	0.42	mg/Kg dry	4		SW-846 8082A	10/26/11	10/28/11 13:31	JMB
Surrogates	% Recovery		Recovery Limits		Flag				
Decachlorobiphenyl [1]	99.9		30-150				10/28/11 13:31		
Decachlorobiphenyl [2]	98.4		30-150				10/28/11 13:31		
Tetrachloro-m-xylene [1]	118		30-150				10/28/11 13:31		
Tetrachloro-m-xylene [2]	120		30-150				10/28/11 13:31		

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Project Location: 168 Western Ave.

Sample Description:

Work Order: 11J0970

Date Received: 10/26/2011

Sampled: 10/25/2011 00:00

Field Sample #: S-1A-3'

Sample ID: 11J0970-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.1		% Wt	1		SM 2540G	11/1/11	11/1/11 21:42	EAH

Project Location: 168 Western Ave.

Sample Description:

Work Order: 11J0970

Date Received: 10/26/2011

Field Sample #: S-21-2'

Sampled: 10/25/2011 00:00

Sample ID: 11J0970-03

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	7.9	mg/Kg dry	5		SW-846 8082A	10/26/11	10/28/11 13:47	JMB
Aroclor-1221 [1]	ND	7.9	mg/Kg dry	5		SW-846 8082A	10/26/11	10/28/11 13:47	JMB
Aroclor-1232 [1]	ND	7.9	mg/Kg dry	5		SW-846 8082A	10/26/11	10/28/11 13:47	JMB
Aroclor-1242 [1]	ND	7.9	mg/Kg dry	5		SW-846 8082A	10/26/11	10/28/11 13:47	JMB
Aroclor-1248 [1]	ND	7.9	mg/Kg dry	5		SW-846 8082A	10/26/11	10/28/11 13:47	JMB
Aroclor-1254 [1]	58	7.9	mg/Kg dry	5		SW-846 8082A	10/26/11	10/28/11 13:47	JMB
Aroclor-1260 [1]	ND	7.9	mg/Kg dry	5		SW-846 8082A	10/26/11	10/28/11 13:47	JMB
Aroclor-1262 [1]	ND	7.9	mg/Kg dry	5		SW-846 8082A	10/26/11	10/28/11 13:47	JMB
Aroclor-1268 [1]	ND	7.9	mg/Kg dry	5		SW-846 8082A	10/26/11	10/28/11 13:47	JMB
Surrogates	% Recovery		Recovery Limits		Flag				
Decachlorobiphenyl [1]	85.3		30-150				10/28/11 13:47		
Decachlorobiphenyl [2]	86.7		30-150				10/28/11 13:47		
Tetrachloro-m-xylene [1]	108		30-150				10/28/11 13:47		
Tetrachloro-m-xylene [2]	110		30-150				10/28/11 13:47		

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Project Location: 168 Western Ave.

Sample Description:

Work Order: 11J0970

Date Received: 10/26/2011

Field Sample #: S-21-2'

Sampled: 10/25/2011 00:00

Sample ID: 11J0970-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	6.30		% Wt	1		SM 2540G	11/1/11	11/1/11 21:42	EAH

Project Location: 168 Western Ave.

Sample Description:

Work Order: 11J0970

Date Received: 10/26/2011

Field Sample #: S-22-2'

Sampled: 10/25/2011 00:00

Sample ID: 11J0970-04

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.22	mg/Kg dry	2		SW-846 8082A	10/28/11	11/2/11 12:25	JMB
Aroclor-1221 [1]	ND	0.22	mg/Kg dry	2		SW-846 8082A	10/28/11	11/2/11 12:25	JMB
Aroclor-1232 [1]	ND	0.22	mg/Kg dry	2		SW-846 8082A	10/28/11	11/2/11 12:25	JMB
Aroclor-1242 [1]	ND	0.22	mg/Kg dry	2		SW-846 8082A	10/28/11	11/2/11 12:25	JMB
Aroclor-1248 [1]	ND	0.22	mg/Kg dry	2		SW-846 8082A	10/28/11	11/2/11 12:25	JMB
Aroclor-1254 [1]	1.8	0.22	mg/Kg dry	2		SW-846 8082A	10/28/11	11/2/11 12:25	JMB
Aroclor-1260 [1]	ND	0.22	mg/Kg dry	2		SW-846 8082A	10/28/11	11/2/11 12:25	JMB
Aroclor-1262 [1]	ND	0.22	mg/Kg dry	2		SW-846 8082A	10/28/11	11/2/11 12:25	JMB
Aroclor-1268 [1]	ND	0.22	mg/Kg dry	2		SW-846 8082A	10/28/11	11/2/11 12:25	JMB
Surrogates	% Recovery		Recovery Limits	Flag					
Decachlorobiphenyl [1]	110		30-150						
Decachlorobiphenyl [2]	116		30-150						
Tetrachloro-m-xylene [1]	109		30-150						
Tetrachloro-m-xylene [2]	122		30-150						

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Project Location: 168 Western Ave.

Sample Description:

Work Order: 11J0970

Date Received: 10/26/2011

Sampled: 10/25/2011 00:00

Field Sample #: S-22-2'

Sample ID: 11J0970-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.7		% Wt	1		SM 2540G	11/1/11	11/1/11 21:42	EAH

Project Location: 168 Western Ave.

Sample Description:

Work Order: 11J0970

Date Received: 10/26/2011

Sampled: 10/25/2011 00:00

Field Sample #: S-20D-20"

Sample ID: 11J0970-12

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	1		SW-846 8082A	10/27/11	10/30/11 20:43	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	1		SW-846 8082A	10/27/11	10/30/11 20:43	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	1		SW-846 8082A	10/27/11	10/30/11 20:43	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	1		SW-846 8082A	10/27/11	10/30/11 20:43	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	1		SW-846 8082A	10/27/11	10/30/11 20:43	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	1		SW-846 8082A	10/27/11	10/30/11 20:43	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	1		SW-846 8082A	10/27/11	10/30/11 20:43	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	1		SW-846 8082A	10/27/11	10/30/11 20:43	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	1		SW-846 8082A	10/27/11	10/30/11 20:43	JMB
Surrogates	% Recovery		Recovery Limits		Flag				
Decachlorobiphenyl [1]	96.2		30-150				10/30/11 20:43		
Decachlorobiphenyl [2]	95.0		30-150				10/30/11 20:43		
Tetrachloro-m-xylene [1]	101		30-150				10/30/11 20:43		
Tetrachloro-m-xylene [2]	108		30-150				10/30/11 20:43		

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Project Location: 168 Western Ave.

Sample Description:

Work Order: 11J0970

Date Received: 10/26/2011

Sampled: 10/25/2011 00:00

Field Sample #: S-20D-20"

Sample ID: 11J0970-12

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	96.8		% Wt	1		SM 2540G	11/1/11	11/1/11 21:42	EAH

Sample Extraction Data**Prep Method: % Solids-SM 2540G**

Lab Number [Field ID]	Batch	Date
11J0970-01 [S-1A-3']	B040166	11/01/11
11J0970-03 [S-21-2']	B040166	11/01/11
11J0970-04 [S-22-2']	B040166	11/01/11
11J0970-12 [S-20D-20"]	B040166	11/01/11

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
11J0970-01 [S-1A-3']	B039952	10.1	50.0	10/26/11
11J0970-03 [S-21-2']	B039952	10.0	50.0	10/26/11

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
11J0970-12 [S-20D-20"]	B040045	10.0	50.0	10/27/11

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
11J0970-04RE1 [S-22-2']	B040087	10.1	50.0	10/28/11

QUALITY CONTROL
Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B039952 - SW-846 3540C
Blank (B039952-BLK1)

Prepared: 10/26/11 Analyzed: 10/27/11

Aroclor-1016	ND	0.10	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1221	ND	0.10	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1232	ND	0.10	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1242	ND	0.10	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1248	ND	0.10	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1254	ND	0.10	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1260	ND	0.10	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1262	ND	0.10	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1268	ND	0.10	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.10	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.175		mg/Kg wet	0.200		87.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.177		mg/Kg wet	0.200		88.4	30-150			
Surrogate: Tetrachloro-m-xylene	0.215		mg/Kg wet	0.200		108	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.225		mg/Kg wet	0.200		112	30-150			

LCS (B039952-BS1)

Prepared: 10/26/11 Analyzed: 10/27/11

Aroclor-1016	0.24	0.10	mg/Kg wet	0.200		118	40-140			
Aroclor-1016 [2C]	0.23	0.10	mg/Kg wet	0.200		116	40-140			
Aroclor-1260	0.19	0.10	mg/Kg wet	0.200		96.1	40-140			
Aroclor-1260 [2C]	0.21	0.10	mg/Kg wet	0.200		105	40-140			
Surrogate: Decachlorobiphenyl	0.173		mg/Kg wet	0.200		86.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.173		mg/Kg wet	0.200		86.7	30-150			
Surrogate: Tetrachloro-m-xylene	0.213		mg/Kg wet	0.200		106	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.223		mg/Kg wet	0.200		111	30-150			

LCS Dup (B039952-BSD1)

Prepared: 10/26/11 Analyzed: 10/27/11

Aroclor-1016	0.25	0.10	mg/Kg wet	0.200		123	40-140	4.22	30	
Aroclor-1016 [2C]	0.24	0.10	mg/Kg wet	0.200		119	40-140	3.11	30	
Aroclor-1260	0.20	0.10	mg/Kg wet	0.200		101	40-140	5.11	30	
Aroclor-1260 [2C]	0.22	0.10	mg/Kg wet	0.200		110	40-140	4.72	30	
Surrogate: Decachlorobiphenyl	0.180		mg/Kg wet	0.200		89.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.181		mg/Kg wet	0.200		90.3	30-150			
Surrogate: Tetrachloro-m-xylene	0.216		mg/Kg wet	0.200		108	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.222		mg/Kg wet	0.200		111	30-150			

QUALITY CONTROL
Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B040045 - SW-846 3540C
Blank (B040045-BLK1)

Prepared: 10/27/11 Analyzed: 10/30/11

Aroclor-1016	ND	0.10	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1221	ND	0.10	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1232	ND	0.10	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1242	ND	0.10	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1248	ND	0.10	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1254	ND	0.10	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1260	ND	0.10	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1262	ND	0.10	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1268	ND	0.10	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.10	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.207		mg/Kg wet	0.200		103	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.208		mg/Kg wet	0.200		104	30-150			
Surrogate: Tetrachloro-m-xylene	0.186		mg/Kg wet	0.200		93.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.206		mg/Kg wet	0.200		103	30-150			

LCS (B040045-BS1)

Prepared: 10/27/11 Analyzed: 10/30/11

Aroclor-1016	0.23	0.10	mg/Kg wet	0.200		117	40-140			
Aroclor-1016 [2C]	0.24	0.10	mg/Kg wet	0.200		121	40-140			
Aroclor-1260	0.21	0.10	mg/Kg wet	0.200		106	40-140			
Aroclor-1260 [2C]	0.23	0.10	mg/Kg wet	0.200		114	40-140			
Surrogate: Decachlorobiphenyl	0.231		mg/Kg wet	0.200		115	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.230		mg/Kg wet	0.200		115	30-150			
Surrogate: Tetrachloro-m-xylene	0.213		mg/Kg wet	0.200		107	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.230		mg/Kg wet	0.200		115	30-150			

LCS Dup (B040045-BSD1)

Prepared: 10/27/11 Analyzed: 10/30/11

Aroclor-1016	0.22	0.10	mg/Kg wet	0.200		111	40-140	5.06	30	
Aroclor-1016 [2C]	0.23	0.10	mg/Kg wet	0.200		114	40-140	5.72	30	
Aroclor-1260	0.20	0.10	mg/Kg wet	0.200		102	40-140	4.04	30	
Aroclor-1260 [2C]	0.22	0.10	mg/Kg wet	0.200		110	40-140	3.15	30	
Surrogate: Decachlorobiphenyl	0.214		mg/Kg wet	0.200		107	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.214		mg/Kg wet	0.200		107	30-150			
Surrogate: Tetrachloro-m-xylene	0.190		mg/Kg wet	0.200		95.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.206		mg/Kg wet	0.200		103	30-150			

QUALITY CONTROL
Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B040087 - SW-846 3540C
Blank (B040087-BLK1)

Prepared: 10/28/11 Analyzed: 11/02/11

Aroclor-1016	ND	0.10	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1221	ND	0.10	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1232	ND	0.10	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1242	ND	0.10	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1248	ND	0.10	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1254	ND	0.10	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1260	ND	0.10	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1262	ND	0.10	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1268	ND	0.10	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.10	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.196		mg/Kg wet	0.200		98.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.198		mg/Kg wet	0.200		99.1	30-150			
Surrogate: Tetrachloro-m-xylene	0.206		mg/Kg wet	0.200		103	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.226		mg/Kg wet	0.200		113	30-150			

LCS (B040087-BS1)

Prepared: 10/28/11 Analyzed: 11/02/11

Aroclor-1016	0.046	0.10	mg/Kg wet	0.0500		91.5	40-140			
Aroclor-1016 [2C]	0.070	0.10	mg/Kg wet	0.0500		140	40-140			
Aroclor-1260	0.053	0.10	mg/Kg wet	0.0500		106	40-140			
Aroclor-1260 [2C]	0.062	0.10	mg/Kg wet	0.0500		123	40-140			
Surrogate: Decachlorobiphenyl	0.203		mg/Kg wet	0.200		102	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.204		mg/Kg wet	0.200		102	30-150			
Surrogate: Tetrachloro-m-xylene	0.212		mg/Kg wet	0.200		106	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.232		mg/Kg wet	0.200		116	30-150			

LCS Dup (B040087-BSD1)

Prepared: 10/28/11 Analyzed: 11/02/11

Aroclor-1016	0.060	0.10	mg/Kg wet	0.0500		119	40-140	26.2	30	
Aroclor-1016 [2C]	0.062	0.10	mg/Kg wet	0.0500		124	40-140	11.8	30	
Aroclor-1260	0.067	0.10	mg/Kg wet	0.0500		134	40-140	23.2	30	
Aroclor-1260 [2C]	0.068	0.10	mg/Kg wet	0.0500		135	40-140	9.42	30	
Surrogate: Decachlorobiphenyl	0.233		mg/Kg wet	0.200		117	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.234		mg/Kg wet	0.200		117	30-150			
Surrogate: Tetrachloro-m-xylene	0.245		mg/Kg wet	0.200		122	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.262		mg/Kg wet	0.200		131	30-150			

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch B040166 - % Solids

Duplicate (B040166-DUP2)

Source: 11J0970-01

Prepared & Analyzed: 11/01/11

% Solids	94.7		% Wt		94.1			0.636	20	
----------	------	--	------	--	------	--	--	-------	----	--

FLAG/QUALIFIER SUMMARY

- * QC result is outside of established limits.
- † Wide recovery limits established for difficult compound.
- ‡ Wide RPD limits established for difficult compound.
- # Data exceeded client recommended or regulatory level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC
Aroclor-1016 [2C]	CT,NH,NY,ME,NC
Aroclor-1221	CT,NH,NY,ME,NC
Aroclor-1221 [2C]	CT,NH,NY,ME,NC
Aroclor-1232	CT,NH,NY,ME,NC
Aroclor-1232 [2C]	CT,NH,NY,ME,NC
Aroclor-1242	CT,NH,NY,ME,NC
Aroclor-1242 [2C]	CT,NH,NY,ME,NC
Aroclor-1248	CT,NH,NY,ME,NC
Aroclor-1248 [2C]	CT,NH,NY,ME,NC
Aroclor-1254	CT,NH,NY,ME,NC
Aroclor-1254 [2C]	CT,NH,NY,ME,NC
Aroclor-1260	CT,NH,NY,ME,NC
Aroclor-1260 [2C]	CT,NH,NY,ME,NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	01/1/2012
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Public Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2012
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2012
RI	Rhode Island Department of Health	LAO00112	12/30/2011
NC	North Carolina Div. of Water Quality	652	12/31/2011
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2012
ME	State of Maine	2011028	06/9/2013



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ANALYTICAL LABORATORY

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 SPRUCE ST, 2ND FLOOR
EAST LONGMEADOW, MA 01028

Page: 1 of 1

Company Name:

ATC Associates

Address:

600 W. CONSUMERS BL. #5450
Woburn, MA 01801

Attention:

J. ROBACK

Project Location:

166 WESTERN AVE.

Sampled By:

J. ROBACK

Proposal Provided? (For Billing purposes)

☐ yes ☐ no

State Form Required?

☐ yes ☐ no

Client PO #

Telephone: (508) 404-1419
Project # 60-21865.0014

DATA DELIVERY (check one):

☐ FAX ☒ EMAIL ☐ WEBSITE CLIENT

Fax #:

Email: jason.robback@contestlabs.com

Format: ☒ EXCEL ☐ PDF ☐ GIS KEY

☐ OTHER

Date Sampled

Start Date/Time

Stop Date/Time

Comp-
osite

Grab

*Matrix
Code

Conc.
Code

PCB 8082 w/ SOXALST

ANALYSIS REQUESTED

-Cont. Code:

A=amber glass

G=glass

P=plastic

ST=sterile

V= vial

S=summa can

T=tiedlar bag

O=Other

Client
Comments:

Field ID	Sample Description	Lab #	Start Date/Time	Stop Date/Time	Comp- osite	Grab	*Matrix Code	Conc. Code
01	S-1A-21		10/25/11				X	S
02	S-2A-21							
03	S-21-21							
04	S-22-21							
05	S-23-21							
06	S-24-21							
07	S-25-21							
08	S-26-21							

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:

H - High; M - Medium; L - Low; C - Clean; U - Unknown

Turnaround **

☐ 7-Day

☐ 10-Day

☒ Other

Other

Other

Other

Other

Other

Other

Detection Limit Requirements

Regulations?

Regulations?

Regulations?

Regulations?

Regulations?

Regulations?

Regulations?

Regulations?

Regulations?

*Matrix Code:

GW= groundwater

WW= wastewater

DW= drinking water

A= air

S= soil/solid

SL= sludge

O= other

**Preservation Codes:

I= iced

H= HCL

M= Methanol

N= Nitric Acid

S= Sulfuric Acid

B= Sodium bisulfate

O= Other

X= Na hydroxide

T= Na thiosulfate

** TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

AIHA, NELAP & WBE/DBE Certified



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ANALYTICAL LABORATORY

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Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 SPRUCE ST, 2ND FLOOR
EAST LONGMEADOW, MA 01028

Page 2 of 2

Company Name:

ATC Associates

Address:

600 W. COMMUNISTON RD. #5450
WOBURN, MA 01801

Client PO #

Telephone: (781) 404-1419
Project # 60-21865.0014

Attention:

J. ROBACK

Project Location:

168 WESTERN AVE.

Sampled By:

J. ROBACK

Proposal Provided? (For Billing purposes)

☐ yes

proposal date

State Form Required?

☐ yes

☐ no

DATA DELIVERY (check one):

☐ FAX ☒ EMAIL ☐ WEBSITE CLIENT

Fax #:

Email: jason.robback@atcassociates.com

Format:

☒ EXCEL

☐ PDF

☐ GIS KEY

☐ OTHER

Date Sampled

Start Date/Time

Stop Date/Time

Comp-
osite

Grab

*Matrix
Code

Conc.
Code

PCB 8082 m/ SOX#121

09 5-27-2011

10 5-28-2011

11 5-19C-2011

12 5-20D-2011

Laboratory Comments:

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:

H - High; M - Medium; L - Low; C - Clean; U - Unknown

Turnaround **

☐ 7-Day

☐ 10-Day

☒ 14-Day

☐ Other

☐ 24-Hr ☐ 48-Hr

☐ 72-Hr ☐ 4-Day

☐ Require lab approval

Detection Limit Requirements

Regulations?

Special Requirements or DLs

Special Requirements or DLs

Special Requirements or DLs

Special Requirements or DLs

Special Requirements or DLs

Special Requirements or DLs

Client Comments:

ANALYSIS REQUESTED

Cont. Code:

A=amber glass

G=glass

P=plastic

ST=sterile

V=vial

S=summary can

T=tedlar bag

O=Other

of containers

**Preserv

Cont. Code

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com



Sample Receipt Checklist

CLIENT NAME: ATC RECEIVED BY: C.C-S. DATE: 10/26/11

1) Was the chain(s) of custody relinquished and signed? Yes No No CoC Included

2) Does the chain agree with the samples?

If not, explain:

Yes No

3) Are all the samples in good condition?

If not, explain:

Yes No

4) How were the samples received:

On Ice ☒

Direct from Sampling ☐

Ambient ☐

In Cooler(s) ☒

Were the samples received in Temperature Compliance of (2-6°C)?

Yes No N/A

Temperature °C by Temp blank

Temperature °C by Temp gun

3.8°C

5) Are there Dissolved samples for the lab to filter?

Yes No

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples?

Yes No

Who was notified _____ Date _____ Time _____

7) Location where samples are stored:

19

Permission to subcontract samples? Yes No

(Walk-in clients only) if not already approved

Client Signature: _____

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)	<u>12</u>	2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____
Bisulfate _____ # DI Water _____
Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

Do all samples have the proper Acid pH: Yes No N/A

Do all samples have the proper Base pH: Yes No N/A

Doc# 277

Page 21 of 21

Rev. 1 May 2011

November 10, 2011

Jason Roback
ATC Associates - Woburn
600 W Cummings Park, Suite 5500
Woburn, MA 01801

Project Location: 168 Western Ave., Allston, MA
Client Job Number:
Project Number: 60.21865.0014
Laboratory Work Order Number: 11K0199

Enclosed are results of analyses for samples received by the laboratory on November 7, 2011. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, reading "Meghan E. Kelley". The signature is written in a cursive, flowing style.

Meghan E. Kelley
Project Manager

ATC Associates - Woburn
600 W Cummings Park, Suite 5500
Woburn, MA 01801
ATTN: Jason Roback

REPORT DATE: 11/10/2011

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 60.21865.0014

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 11K0199

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 168 Western Ave., Allston, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
Carpet/Mastic-Showroom-E	11K0199-01	Product/Solid		SW-846 8082A	
Carpet/Mastic-Showroom-W	11K0199-02	Product/Solid		SW-846 8082A	
Carpet/Mastic-Garage-E	11K0199-03	Product/Solid		SW-846 8082A	
Carpet/Mastic-Garage-W	11K0199-04	Product/Solid		SW-846 8082A	
S-3A-2ft	11K0199-05	Soil		SM 2540G	
				SW-846 8082A	
S-21-3ft	11K0199-06	Soil		SM 2540G	
				SW-846 8082A	
S-22-3ft	11K0199-07	Soil		SM 2540G	
				SW-846 8082A	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

SW-846 8082A

Qualifications:

Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.

Analyte & Samples(s) Qualified:

Aroclor-1016, Aroclor-1016 [2C], Aroclor-1260, Aroclor-1260 [2C]

B040637-MS1, B040637-MSD1

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Daren J. Damboragian
Laboratory Manager

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 168 Western Ave., Allston, MA

Sample Description:

Work Order: 11K0199

Date Received: 11/7/2011

Field Sample #: Carpet/Mastic-Showroom-E

Sampled: 11/4/2011 07:10

Sample ID: 11K0199-01

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	11/8/11	11/10/11 9:51	MJC
Aroclor-1221 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	11/8/11	11/10/11 9:51	MJC
Aroclor-1232 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	11/8/11	11/10/11 9:51	MJC
Aroclor-1242 [1]	3.7	0.50	mg/Kg	5		SW-846 8082A	11/8/11	11/10/11 9:51	MJC
Aroclor-1248 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	11/8/11	11/10/11 9:51	MJC
Aroclor-1254 [2]	3.3	0.50	mg/Kg	5		SW-846 8082A	11/8/11	11/10/11 9:51	MJC
Aroclor-1260 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	11/8/11	11/10/11 9:51	MJC
Aroclor-1262 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	11/8/11	11/10/11 9:51	MJC
Aroclor-1268 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	11/8/11	11/10/11 9:51	MJC
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	98.9	30-150						11/10/11 9:51	
Decachlorobiphenyl [2]	112	30-150						11/10/11 9:51	
Tetrachloro-m-xylene [1]	101	30-150						11/10/11 9:51	
Tetrachloro-m-xylene [2]	102	30-150						11/10/11 9:51	

Project Location: 168 Western Ave., Allston, MA

Sample Description:

Work Order: 11K0199

Date Received: 11/7/2011

Field Sample #: Carpet/Mastic-Showroom-W

Sampled: 11/4/2011 07:15

Sample ID: 11K0199-02

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	11/8/11	11/10/11 10:03	MJC
Aroclor-1221 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	11/8/11	11/10/11 10:03	MJC
Aroclor-1232 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	11/8/11	11/10/11 10:03	MJC
Aroclor-1242 [1]	4.3	0.50	mg/Kg	5		SW-846 8082A	11/8/11	11/10/11 10:03	MJC
Aroclor-1248 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	11/8/11	11/10/11 10:03	MJC
Aroclor-1254 [2]	3.5	0.50	mg/Kg	5		SW-846 8082A	11/8/11	11/10/11 10:03	MJC
Aroclor-1260 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	11/8/11	11/10/11 10:03	MJC
Aroclor-1262 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	11/8/11	11/10/11 10:03	MJC
Aroclor-1268 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	11/8/11	11/10/11 10:03	MJC
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	100	30-150							
Decachlorobiphenyl [2]	114	30-150							
Tetrachloro-m-xylene [1]	102	30-150							
Tetrachloro-m-xylene [2]	104	30-150							

Project Location: 168 Western Ave., Allston, MA

Sample Description:

Work Order: 11K0199

Date Received: 11/7/2011

Field Sample #: Carpet/Mastic-Garage-E

Sampled: 11/4/2011 07:26

Sample ID: 11K0199-03

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	11/8/11	11/10/11 9:25	MJC
Aroclor-1221 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	11/8/11	11/10/11 9:25	MJC
Aroclor-1232 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	11/8/11	11/10/11 9:25	MJC
Aroclor-1242 [1]	1.0	0.091	mg/Kg	1		SW-846 8082A	11/8/11	11/10/11 9:25	MJC
Aroclor-1248 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	11/8/11	11/10/11 9:25	MJC
Aroclor-1254 [2]	0.34	0.091	mg/Kg	1		SW-846 8082A	11/8/11	11/10/11 9:25	MJC
Aroclor-1260 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	11/8/11	11/10/11 9:25	MJC
Aroclor-1262 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	11/8/11	11/10/11 9:25	MJC
Aroclor-1268 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	11/8/11	11/10/11 9:25	MJC
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	112	30-150						11/10/11 9:25	
Decachlorobiphenyl [2]	112	30-150						11/10/11 9:25	
Tetrachloro-m-xylene [1]	107	30-150						11/10/11 9:25	
Tetrachloro-m-xylene [2]	101	30-150						11/10/11 9:25	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 168 Western Ave., Allston, MA

Sample Description:

Work Order: 11K0199

Date Received: 11/7/2011

Field Sample #: Carpet/Mastic-Garage-W

Sampled: 11/4/2011 07:25

Sample ID: 11K0199-04

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	11/8/11	11/10/11 9:38	MJC
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	11/8/11	11/10/11 9:38	MJC
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	11/8/11	11/10/11 9:38	MJC
Aroclor-1242 [1]	0.93	0.10	mg/Kg	1		SW-846 8082A	11/8/11	11/10/11 9:38	MJC
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	11/8/11	11/10/11 9:38	MJC
Aroclor-1254 [2]	0.26	0.10	mg/Kg	1		SW-846 8082A	11/8/11	11/10/11 9:38	MJC
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	11/8/11	11/10/11 9:38	MJC
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	11/8/11	11/10/11 9:38	MJC
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	11/8/11	11/10/11 9:38	MJC
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	122	30-150						11/10/11 9:38	
Decachlorobiphenyl [2]	121	30-150						11/10/11 9:38	
Tetrachloro-m-xylene [1]	117	30-150						11/10/11 9:38	
Tetrachloro-m-xylene [2]	111	30-150						11/10/11 9:38	

Project Location: 168 Western Ave., Allston, MA

Sample Description:

Work Order: 11K0199

Date Received: 11/7/2011

Field Sample #: S-3A-2ft

Sampled: 10/25/2011 14:00

Sample ID: 11K0199-05

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/8/11	11/10/11 1:52	MJC
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/8/11	11/10/11 1:52	MJC
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/8/11	11/10/11 1:52	MJC
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/8/11	11/10/11 1:52	MJC
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/8/11	11/10/11 1:52	MJC
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/8/11	11/10/11 1:52	MJC
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/8/11	11/10/11 1:52	MJC
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/8/11	11/10/11 1:52	MJC
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/8/11	11/10/11 1:52	MJC
Surrogates	% Recovery		Recovery Limits		Flag				
Decachlorobiphenyl [1]	107		30-150				11/10/11 1:52		
Decachlorobiphenyl [2]	119		30-150				11/10/11 1:52		
Tetrachloro-m-xylene [1]	92.7		30-150				11/10/11 1:52		
Tetrachloro-m-xylene [2]	93.0		30-150				11/10/11 1:52		

Project Location: 168 Western Ave., Allston, MA

Sample Description:

Work Order: 11K0199

Date Received: 11/7/2011

Field Sample #: S-3A-2ft

Sampled: 10/25/2011 14:00

Sample ID: 11K0199-05

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	91.5		% Wt	1		SM 2540G	11/7/11	11/8/11 15:20	VAF

Project Location: 168 Western Ave., Allston, MA

Sample Description:

Work Order: 11K0199

Date Received: 11/7/2011

Field Sample #: S-21-3ft

Sampled: 10/25/2011 15:00

Sample ID: 11K0199-06

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/8/11	11/10/11 2:05	MJC
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/8/11	11/10/11 2:05	MJC
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/8/11	11/10/11 2:05	MJC
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/8/11	11/10/11 2:05	MJC
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/8/11	11/10/11 2:05	MJC
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/8/11	11/10/11 2:05	MJC
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/8/11	11/10/11 2:05	MJC
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/8/11	11/10/11 2:05	MJC
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/8/11	11/10/11 2:05	MJC
Surrogates	% Recovery		Recovery Limits		Flag				
Decachlorobiphenyl [1]	104		30-150				11/10/11 2:05		
Decachlorobiphenyl [2]	114		30-150				11/10/11 2:05		
Tetrachloro-m-xylene [1]	94.4		30-150				11/10/11 2:05		
Tetrachloro-m-xylene [2]	94.9		30-150				11/10/11 2:05		

Project Location: 168 Western Ave., Allston, MA

Sample Description:

Work Order: 11K0199

Date Received: 11/7/2011

Field Sample #: S-21-3ft

Sampled: 10/25/2011 15:00

Sample ID: 11K0199-06

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.7		% Wt	1		SM 2540G	11/7/11	11/8/11 15:20	VAF

Project Location: 168 Western Ave., Allston, MA

Sample Description:

Work Order: 11K0199

Date Received: 11/7/2011

Field Sample #: S-22-3ft

Sampled: 10/25/2011 15:20

Sample ID: 11K0199-07

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/8/11	11/10/11 2:18	MJC
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/8/11	11/10/11 2:18	MJC
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/8/11	11/10/11 2:18	MJC
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/8/11	11/10/11 2:18	MJC
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/8/11	11/10/11 2:18	MJC
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/8/11	11/10/11 2:18	MJC
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/8/11	11/10/11 2:18	MJC
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/8/11	11/10/11 2:18	MJC
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/8/11	11/10/11 2:18	MJC
Surrogates	% Recovery		Recovery Limits		Flag				
Decachlorobiphenyl [1]	84.6		30-150				11/10/11 2:18		
Decachlorobiphenyl [2]	94.5		30-150				11/10/11 2:18		
Tetrachloro-m-xylene [1]	75.6		30-150				11/10/11 2:18		
Tetrachloro-m-xylene [2]	77.4		30-150				11/10/11 2:18		

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Project Location: 168 Western Ave., Allston, MA

Sample Description:

Work Order: 11K0199

Date Received: 11/7/2011

Field Sample #: S-22-3ft

Sampled: 10/25/2011 15:20

Sample ID: 11K0199-07

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	91.3		% Wt	1		SM 2540G	11/7/11	11/8/11 15:20	VAF

Sample Extraction Data**Prep Method: % Solids-SM 2540G**

Lab Number [Field ID]	Batch	Date
11K0199-05 [S-3A-2ft]	B040554	11/07/11
11K0199-06 [S-21-3ft]	B040554	11/07/11
11K0199-07 [S-22-3ft]	B040554	11/07/11

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
11K0199-01 [Carpet/Mastic-Showroom-E]	B040637	2.00	10.0	11/08/11
11K0199-02 [Carpet/Mastic-Showroom-W]	B040637	2.00	10.0	11/08/11
11K0199-03 [Carpet/Mastic-Garage-E]	B040637	2.20	10.0	11/08/11
11K0199-04 [Carpet/Mastic-Garage-W]	B040637	2.00	10.0	11/08/11

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
11K0199-05 [S-3A-2ft]	B040635	10.1	10.0	11/08/11
11K0199-06 [S-21-3ft]	B040635	10.2	10.0	11/08/11
11K0199-07 [S-22-3ft]	B040635	10.0	10.0	11/08/11

QUALITY CONTROL
Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B040635 - SW-846 3540C
Blank (B040635-BLK1)

Prepared: 11/08/11 Analyzed: 11/10/11

Aroclor-1016	ND	0.10	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1221	ND	0.10	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1232	ND	0.10	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1242	ND	0.10	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1248	ND	0.10	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1254	ND	0.10	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1260	ND	0.10	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1262	ND	0.10	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1268	ND	0.10	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.10	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.212		mg/Kg wet	0.200		106	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.232		mg/Kg wet	0.200		116	30-150			
Surrogate: Tetrachloro-m-xylene	0.196		mg/Kg wet	0.200		98.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.197		mg/Kg wet	0.200		98.6	30-150			

LCS (B040635-BS1)

Prepared: 11/08/11 Analyzed: 11/10/11

Aroclor-1016	0.23	0.10	mg/Kg wet	0.200		114	40-140			
Aroclor-1016 [2C]	0.22	0.10	mg/Kg wet	0.200		109	40-140			
Aroclor-1260	0.25	0.10	mg/Kg wet	0.200		125	40-140			
Aroclor-1260 [2C]	0.24	0.10	mg/Kg wet	0.200		119	40-140			
Surrogate: Decachlorobiphenyl	0.234		mg/Kg wet	0.200		117	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.258		mg/Kg wet	0.200		129	30-150			
Surrogate: Tetrachloro-m-xylene	0.205		mg/Kg wet	0.200		102	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.207		mg/Kg wet	0.200		104	30-150			

LCS Dup (B040635-BSD1)

Prepared: 11/08/11 Analyzed: 11/10/11

Aroclor-1016	0.23	0.10	mg/Kg wet	0.200		115	40-140	1.15	30	
Aroclor-1016 [2C]	0.21	0.10	mg/Kg wet	0.200		107	40-140	1.79	30	
Aroclor-1260	0.25	0.10	mg/Kg wet	0.200		125	40-140	0.0759	30	
Aroclor-1260 [2C]	0.24	0.10	mg/Kg wet	0.200		119	40-140	0.288	30	
Surrogate: Decachlorobiphenyl	0.229		mg/Kg wet	0.200		114	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.249		mg/Kg wet	0.200		125	30-150			
Surrogate: Tetrachloro-m-xylene	0.198		mg/Kg wet	0.200		98.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.202		mg/Kg wet	0.200		101	30-150			

QUALITY CONTROL
Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B040637 - SW-846 3540C
Blank (B040637-BLK1)

Prepared: 11/08/11 Analyzed: 11/09/11

Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	1.15		mg/Kg	1.00		115	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.16		mg/Kg	1.00		116	30-150			
Surrogate: Tetrachloro-m-xylene	0.982		mg/Kg	1.00		98.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.911		mg/Kg	1.00		91.1	30-150			

LCS (B040637-BS1)

Prepared: 11/08/11 Analyzed: 11/09/11

Aroclor-1016	0.25	0.10	mg/Kg	0.250		98.7	40-140			
Aroclor-1016 [2C]	0.25	0.10	mg/Kg	0.250		100	40-140			
Aroclor-1260	0.29	0.10	mg/Kg	0.250		115	40-140			
Aroclor-1260 [2C]	0.27	0.10	mg/Kg	0.250		110	40-140			
Surrogate: Decachlorobiphenyl	1.17		mg/Kg	1.00		117	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.17		mg/Kg	1.00		117	30-150			
Surrogate: Tetrachloro-m-xylene	0.982		mg/Kg	1.00		98.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.921		mg/Kg	1.00		92.1	30-150			

LCS Dup (B040637-BSD1)

Prepared: 11/08/11 Analyzed: 11/09/11

Aroclor-1016	0.27	0.10	mg/Kg	0.250		108	40-140	8.55	30	
Aroclor-1016 [2C]	0.25	0.10	mg/Kg	0.250		101	40-140	0.774	30	
Aroclor-1260	0.29	0.10	mg/Kg	0.250		116	40-140	0.753	30	
Aroclor-1260 [2C]	0.27	0.10	mg/Kg	0.250		107	40-140	2.50	30	
Surrogate: Decachlorobiphenyl	1.18		mg/Kg	1.00		118	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.18		mg/Kg	1.00		118	30-150			
Surrogate: Tetrachloro-m-xylene	0.980		mg/Kg	1.00		98.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.916		mg/Kg	1.00		91.6	30-150			

QUALITY CONTROL
Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B040637 - SW-846 3540C

Matrix Spike (B040637-MS1)		Source: 11K0199-01		Prepared: 11/08/11 Analyzed: 11/10/11						
Aroclor-1016	15	0.10	mg/Kg	0.250	0.0	6140	*	40-140		MS-19
Aroclor-1016 [2C]	4.6	0.10	mg/Kg	0.250	0.0	1840	*	40-140		MS-19
Aroclor-1260	0.83	0.10	mg/Kg	0.250	0.0	331	*	40-140		MS-19
Aroclor-1260 [2C]	0.67	0.10	mg/Kg	0.250	0.0	269	*	40-140		MS-19
Surrogate: Decachlorobiphenyl	1.08		mg/Kg	1.00		108		30-150		
Surrogate: Decachlorobiphenyl [2C]	1.09		mg/Kg	1.00		109		30-150		
Surrogate: Tetrachloro-m-xylene	0.918		mg/Kg	1.00		91.8		30-150		
Surrogate: Tetrachloro-m-xylene [2C]	0.882		mg/Kg	1.00		88.2		30-150		

Matrix Spike Dup (B040637-MSD1)		Source: 11K0199-01		Prepared: 11/08/11 Analyzed: 11/10/11						
Aroclor-1016	8.6	0.10	mg/Kg	0.250	0.0	3450	*	40-140	56.2	50 MS-19
Aroclor-1016 [2C]	4.0	0.10	mg/Kg	0.250	0.0	1620	*	40-140	12.7	50 MS-19
Aroclor-1260	0.75	0.10	mg/Kg	0.250	0.0	301	*	40-140	9.38	50 MS-19
Aroclor-1260 [2C]	0.62	0.10	mg/Kg	0.250	0.0	250	*	40-140	7.26	50 MS-19
Surrogate: Decachlorobiphenyl	1.05		mg/Kg	1.00		105		30-150		
Surrogate: Decachlorobiphenyl [2C]	1.06		mg/Kg	1.00		106		30-150		
Surrogate: Tetrachloro-m-xylene	0.895		mg/Kg	1.00		89.5		30-150		
Surrogate: Tetrachloro-m-xylene [2C]	0.890		mg/Kg	1.00		89.0		30-150		

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
MS-19	Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Product/Solid	
Aroclor-1016	CT,NH,NY,ME,NC
Aroclor-1016 [2C]	CT,NH,NY,ME,NC
Aroclor-1221	CT,NH,NY,ME,NC
Aroclor-1221 [2C]	CT,NH,NY,ME,NC
Aroclor-1232	CT,NH,NY,ME,NC
Aroclor-1232 [2C]	CT,NH,NY,ME,NC
Aroclor-1242	CT,NH,NY,ME,NC
Aroclor-1242 [2C]	CT,NH,NY,ME,NC
Aroclor-1248	CT,NH,NY,ME,NC
Aroclor-1248 [2C]	CT,NH,NY,ME,NC
Aroclor-1254	CT,NH,NY,ME,NC
Aroclor-1254 [2C]	CT,NH,NY,ME,NC
Aroclor-1260	CT,NH,NY,ME,NC
Aroclor-1260 [2C]	CT,NH,NY,ME,NC
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC
Aroclor-1016 [2C]	CT,NH,NY,ME,NC
Aroclor-1221	CT,NH,NY,ME,NC
Aroclor-1221 [2C]	CT,NH,NY,ME,NC
Aroclor-1232	CT,NH,NY,ME,NC
Aroclor-1232 [2C]	CT,NH,NY,ME,NC
Aroclor-1242	CT,NH,NY,ME,NC
Aroclor-1242 [2C]	CT,NH,NY,ME,NC
Aroclor-1248	CT,NH,NY,ME,NC
Aroclor-1248 [2C]	CT,NH,NY,ME,NC
Aroclor-1254	CT,NH,NY,ME,NC
Aroclor-1254 [2C]	CT,NH,NY,ME,NC
Aroclor-1260	CT,NH,NY,ME,NC
Aroclor-1260 [2C]	CT,NH,NY,ME,NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	01/1/2012
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Public Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2012
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2012
RI	Rhode Island Department of Health	LAO00112	12/30/2011
NC	North Carolina Div. of Water Quality	652	12/31/2011
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2012
ME	State of Maine	2011028	06/9/2013

39 Spruce St.
East Longmeadow, MA. 01028
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Sample Receipt Checklist

CLIENT NAME: ATC

RECEIVED BY: C.C-S DATE: 11/7/11

1) Was the chain(s) of custody relinquished and signed?

Yes No

No CoC Included

2) Does the chain agree with the samples?

Yes No

If not, explain:

3) Are all the samples in good condition?

Yes No

If not, explain:

4) How were the samples received:

On Ice ☒

Direct from Sampling ☐

Ambient ☐

In Cooler(s) ☒

Were the samples received in Temperature Compliance of (2-6°C)?

Yes No

N/A

Temperature °C by Temp blank

Temperature °C by Temp gun

2.1°C

5) Are there Dissolved samples for the lab to filter?

Yes

No

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples?

Yes No

Who was notified _____ Date _____ Time _____

7) Location where samples are stored:

19

Permission to subcontract samples? Yes No

(Walk-in clients only) if not already approved

Client Signature: _____

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz <u>amber/clear</u> jar	<u>1</u> / <u>2</u>
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	<u>4</u>
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____
Bisulfate _____ # DI Water _____
Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

Do all samples have the proper Acid pH: Yes No N/A

Doc# 277

Do all samples have the proper Base pH: Yes No N/A

Rev. 1 May 2011

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November 15, 2011

Jason Roback
ATC Associates - Woburn
600 W Cummings Park, Suite 5500
Woburn, MA 01801

Project Location: 168 Western Ave.
Client Job Number:
Project Number: 060.21865.0014
Laboratory Work Order Number: 11K0333

Enclosed are results of analyses for samples received by the laboratory on November 10, 2011. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, reading "Meghan E. Kelley". The signature is written in a cursive, flowing style.

Meghan E. Kelley
Project Manager

ATC Associates - Woburn
600 W Cummings Park, Suite 5500
Woburn, MA 01801
ATTN: Jason Roback

REPORT DATE: 11/15/2011

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 060.21865.0014

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 11K0333

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 168 Western Ave.

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
Base B Int 5ft-B	11K0333-01	Product/Solid		SW-846 8082A	
S-1A-5ft	11K0333-02	Soil		SM 2540G	
				SW-846 8082A	
34-S	11K0333-03	Soil		SM 2540G	
				SW-846 8082A	
34-3ft	11K0333-04	Soil		SM 2540G	
				SW-846 8082A	
35-S	11K0333-05	Soil		SM 2540G	
				SW-846 8082A	
35-3ft	11K0333-06	Soil		SM 2540G	
				SW-846 8082A	
36-S	11K0333-07	Soil		SM 2540G	
				SW-846 8082A	
36-3ft	11K0333-08	Soil		SM 2540G	
				SW-846 8082A	
39-S	11K0333-09	Soil		SM 2540G	
				SW-846 8082A	
39-3ft	11K0333-10	Soil		SM 2540G	
				SW-846 8082A	
40-S	11K0333-11	Soil		SM 2540G	
				SW-846 8082A	
40-3ft	11K0333-12	Soil		SM 2540G	
				SW-846 8082A	

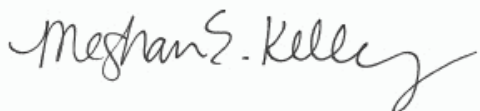
CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

REVISED REPORT - 11/15/2011 - Sample -08 ID revised.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Meghan E. Kelley
Project Chemist

Project Location: 168 Western Ave.

Sample Description:

Work Order: 11K0333

Date Received: 11/10/2011

Field Sample #: Base B Int 5ft-B

Sampled: 11/9/2011 09:30

Sample ID: 11K0333-01

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	11/10/11	11/12/11 17:17	PJG
Aroclor-1221 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	11/10/11	11/12/11 17:17	PJG
Aroclor-1232 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	11/10/11	11/12/11 17:17	PJG
Aroclor-1242 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	11/10/11	11/12/11 17:17	PJG
Aroclor-1248 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	11/10/11	11/12/11 17:17	PJG
Aroclor-1254 [2]	3.7	0.48	mg/Kg	5		SW-846 8082A	11/10/11	11/12/11 17:17	PJG
Aroclor-1260 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	11/10/11	11/12/11 17:17	PJG
Aroclor-1262 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	11/10/11	11/12/11 17:17	PJG
Aroclor-1268 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	11/10/11	11/12/11 17:17	PJG
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	82.3	30-150							
Decachlorobiphenyl [2]	88.4	30-150							
Tetrachloro-m-xylene [1]	89.7	30-150							
Tetrachloro-m-xylene [2]	88.7	30-150							

Project Location: 168 Western Ave.

Sample Description:

Work Order: 11K0333

Date Received: 11/10/2011

Sampled: 11/9/2011 11:00

Field Sample #: S-1A-5ft

Sample ID: 11K0333-02

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	11/10/11	11/12/11 19:42	MJC
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	11/10/11	11/12/11 19:42	MJC
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	11/10/11	11/12/11 19:42	MJC
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	11/10/11	11/12/11 19:42	MJC
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	11/10/11	11/12/11 19:42	MJC
Aroclor-1254 [2]	0.20	0.11	mg/Kg dry	1		SW-846 8082A	11/10/11	11/12/11 19:42	MJC
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	11/10/11	11/12/11 19:42	MJC
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	11/10/11	11/12/11 19:42	MJC
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	11/10/11	11/12/11 19:42	MJC
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	85.8	30-150							
Decachlorobiphenyl [2]	88.6	30-150							
Tetrachloro-m-xylene [1]	90.8	30-150							
Tetrachloro-m-xylene [2]	94.3	30-150							

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Project Location: 168 Western Ave.

Sample Description:

Work Order: 11K0333

Date Received: 11/10/2011

Sampled: 11/9/2011 11:00

Field Sample #: S-1A-5ft

Sample ID: 11K0333-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.2		% Wt	1		SM 2540G	11/10/11	11/11/11 9:19	WAL

Project Location: 168 Western Ave.

Sample Description:

Work Order: 11K0333

Date Received: 11/10/2011

Field Sample #: 34-S

Sampled: 11/9/2011 10:00

Sample ID: 11K0333-03

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082A	11/10/11	11/12/11 19:55	MJC
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082A	11/10/11	11/12/11 19:55	MJC
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082A	11/10/11	11/12/11 19:55	MJC
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082A	11/10/11	11/12/11 19:55	MJC
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082A	11/10/11	11/12/11 19:55	MJC
Aroclor-1254 [1]	0.21	0.12	mg/Kg dry	1		SW-846 8082A	11/10/11	11/12/11 19:55	MJC
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082A	11/10/11	11/12/11 19:55	MJC
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082A	11/10/11	11/12/11 19:55	MJC
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082A	11/10/11	11/12/11 19:55	MJC
Surrogates	% Recovery		Recovery Limits		Flag				
Decachlorobiphenyl [1]	75.7		30-150				11/12/11 19:55		
Decachlorobiphenyl [2]	80.3		30-150				11/12/11 19:55		
Tetrachloro-m-xylene [1]	85.1		30-150				11/12/11 19:55		
Tetrachloro-m-xylene [2]	87.4		30-150				11/12/11 19:55		

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Project Location: 168 Western Ave.

Sample Description:

Work Order: 11K0333

Date Received: 11/10/2011

Sampled: 11/9/2011 10:00

Field Sample #: 34-S

Sample ID: 11K0333-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	82.9		% Wt	1		SM 2540G	11/10/11	11/11/11 9:19	WAL

Project Location: 168 Western Ave.

Sample Description:

Work Order: 11K0333

Date Received: 11/10/2011

Field Sample #: 34-3ft

Sampled: 11/9/2011 10:05

Sample ID: 11K0333-04

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082A	11/10/11	11/12/11 20:33	MJC
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082A	11/10/11	11/12/11 20:33	MJC
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082A	11/10/11	11/12/11 20:33	MJC
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082A	11/10/11	11/12/11 20:33	MJC
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082A	11/10/11	11/12/11 20:33	MJC
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082A	11/10/11	11/12/11 20:33	MJC
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082A	11/10/11	11/12/11 20:33	MJC
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082A	11/10/11	11/12/11 20:33	MJC
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082A	11/10/11	11/12/11 20:33	MJC
Surrogates	% Recovery		Recovery Limits		Flag				
Decachlorobiphenyl [1]	77.0		30-150				11/12/11 20:33		
Decachlorobiphenyl [2]	79.3		30-150				11/12/11 20:33		
Tetrachloro-m-xylene [1]	82.6		30-150				11/12/11 20:33		
Tetrachloro-m-xylene [2]	87.5		30-150				11/12/11 20:33		

Project Location: 168 Western Ave.

Sample Description:

Work Order: 11K0333

Date Received: 11/10/2011

Sampled: 11/9/2011 10:05

Field Sample #: 34-3ft

Sample ID: 11K0333-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.7		% Wt	1		SM 2540G	11/10/11	11/11/11 9:19	WAL

Project Location: 168 Western Ave.

Sample Description:

Work Order: 11K0333

Date Received: 11/10/2011

Field Sample #: 35-S

Sampled: 11/9/2011 10:30

Sample ID: 11K0333-05

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082A	11/10/11	11/12/11 20:46	MJC
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082A	11/10/11	11/12/11 20:46	MJC
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082A	11/10/11	11/12/11 20:46	MJC
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082A	11/10/11	11/12/11 20:46	MJC
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082A	11/10/11	11/12/11 20:46	MJC
Aroclor-1254 [1]	0.16	0.12	mg/Kg dry	1		SW-846 8082A	11/10/11	11/12/11 20:46	MJC
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082A	11/10/11	11/12/11 20:46	MJC
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082A	11/10/11	11/12/11 20:46	MJC
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082A	11/10/11	11/12/11 20:46	MJC
Surrogates	% Recovery		Recovery Limits		Flag				
Decachlorobiphenyl [1]	70.0		30-150				11/12/11 20:46		
Decachlorobiphenyl [2]	73.7		30-150				11/12/11 20:46		
Tetrachloro-m-xylene [1]	82.8		30-150				11/12/11 20:46		
Tetrachloro-m-xylene [2]	87.2		30-150				11/12/11 20:46		

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Project Location: 168 Western Ave.

Sample Description:

Work Order: 11K0333

Date Received: 11/10/2011

Sampled: 11/9/2011 10:30

Field Sample #: 35-S

Sample ID: 11K0333-05

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.9		% Wt	1		SM 2540G	11/10/11	11/11/11 9:19	WAL

Project Location: 168 Western Ave.

Sample Description:

Work Order: 11K0333

Date Received: 11/10/2011

Field Sample #: 35-3ft

Sampled: 11/9/2011 10:35

Sample ID: 11K0333-06

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	11/10/11	11/12/11 20:59	MJC
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	11/10/11	11/12/11 20:59	MJC
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	11/10/11	11/12/11 20:59	MJC
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	11/10/11	11/12/11 20:59	MJC
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	11/10/11	11/12/11 20:59	MJC
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	11/10/11	11/12/11 20:59	MJC
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	11/10/11	11/12/11 20:59	MJC
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	11/10/11	11/12/11 20:59	MJC
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	11/10/11	11/12/11 20:59	MJC
Surrogates	% Recovery		Recovery Limits		Flag				
Decachlorobiphenyl [1]	79.6		30-150				11/12/11 20:59		
Decachlorobiphenyl [2]	82.3		30-150				11/12/11 20:59		
Tetrachloro-m-xylene [1]	87.4		30-150				11/12/11 20:59		
Tetrachloro-m-xylene [2]	91.6		30-150				11/12/11 20:59		

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 168 Western Ave.

Sample Description:

Work Order: 11K0333

Date Received: 11/10/2011

Sampled: 11/9/2011 10:35

Field Sample #: 35-3ft

Sample ID: 11K0333-06

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	90.7		% Wt	1		SM 2540G	11/10/11	11/11/11 9:19	WAL

Project Location: 168 Western Ave.

Sample Description:

Work Order: 11K0333

Date Received: 11/10/2011

Sampled: 11/9/2011 10:50

Field Sample #: 36-S

Sample ID: 11K0333-07

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082A	11/10/11	11/12/11 21:11	MJC
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082A	11/10/11	11/12/11 21:11	MJC
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082A	11/10/11	11/12/11 21:11	MJC
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082A	11/10/11	11/12/11 21:11	MJC
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082A	11/10/11	11/12/11 21:11	MJC
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082A	11/10/11	11/12/11 21:11	MJC
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082A	11/10/11	11/12/11 21:11	MJC
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082A	11/10/11	11/12/11 21:11	MJC
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082A	11/10/11	11/12/11 21:11	MJC
Surrogates	% Recovery		Recovery Limits		Flag				
Decachlorobiphenyl [1]	80.2		30-150				11/12/11 21:11		
Decachlorobiphenyl [2]	87.8		30-150				11/12/11 21:11		
Tetrachloro-m-xylene [1]	91.7		30-150				11/12/11 21:11		
Tetrachloro-m-xylene [2]	95.6		30-150				11/12/11 21:11		

Project Location: 168 Western Ave.

Sample Description:

Work Order: 11K0333

Date Received: 11/10/2011

Sampled: 11/9/2011 10:50

Field Sample #: 36-S

Sample ID: 11K0333-07

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	82.4		% Wt	1		SM 2540G	11/10/11	11/11/11 9:19	WAL

Project Location: 168 Western Ave.

Sample Description:

Work Order: 11K0333

Date Received: 11/10/2011

Field Sample #: 36-3ft

Sampled: 11/9/2011 10:55

Sample ID: 11K0333-08

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	11/10/11	11/12/11 21:24	MJC
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	11/10/11	11/12/11 21:24	MJC
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	11/10/11	11/12/11 21:24	MJC
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	11/10/11	11/12/11 21:24	MJC
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	11/10/11	11/12/11 21:24	MJC
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	11/10/11	11/12/11 21:24	MJC
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	11/10/11	11/12/11 21:24	MJC
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	11/10/11	11/12/11 21:24	MJC
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	11/10/11	11/12/11 21:24	MJC
Surrogates	% Recovery		Recovery Limits		Flag				
Decachlorobiphenyl [1]	78.2		30-150				11/12/11 21:24		
Decachlorobiphenyl [2]	81.5		30-150				11/12/11 21:24		
Tetrachloro-m-xylene [1]	88.4		30-150				11/12/11 21:24		
Tetrachloro-m-xylene [2]	92.7		30-150				11/12/11 21:24		

Project Location: 168 Western Ave.

Sample Description:

Work Order: 11K0333

Date Received: 11/10/2011

Sampled: 11/9/2011 10:55

Field Sample #: 36-3ft

Sample ID: 11K0333-08

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.5		% Wt	1		SM 2540G	11/10/11	11/11/11 9:19	WAL

Project Location: 168 Western Ave.

Sample Description:

Work Order: 11K0333

Date Received: 11/10/2011

Field Sample #: 39-S

Sampled: 11/9/2011 11:30

Sample ID: 11K0333-09

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082A	11/10/11	11/12/11 21:37	MJC
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082A	11/10/11	11/12/11 21:37	MJC
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082A	11/10/11	11/12/11 21:37	MJC
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082A	11/10/11	11/12/11 21:37	MJC
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082A	11/10/11	11/12/11 21:37	MJC
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082A	11/10/11	11/12/11 21:37	MJC
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082A	11/10/11	11/12/11 21:37	MJC
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082A	11/10/11	11/12/11 21:37	MJC
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082A	11/10/11	11/12/11 21:37	MJC
Surrogates	% Recovery		Recovery Limits		Flag				
Decachlorobiphenyl [1]	75.5		30-150				11/12/11 21:37		
Decachlorobiphenyl [2]	79.3		30-150				11/12/11 21:37		
Tetrachloro-m-xylene [1]	80.5		30-150				11/12/11 21:37		
Tetrachloro-m-xylene [2]	84.6		30-150				11/12/11 21:37		

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 168 Western Ave.

Sample Description:

Work Order: 11K0333

Date Received: 11/10/2011

Sampled: 11/9/2011 11:30

Field Sample #: 39-S

Sample ID: 11K0333-09

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.0		% Wt	1		SM 2540G	11/10/11	11/11/11 9:19	WAL

Project Location: 168 Western Ave.

Sample Description:

Work Order: 11K0333

Date Received: 11/10/2011

Field Sample #: 39-3ft

Sampled: 11/9/2011 11:35

Sample ID: 11K0333-10

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	11/10/11	11/12/11 21:49	MJC
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	11/10/11	11/12/11 21:49	MJC
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	11/10/11	11/12/11 21:49	MJC
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	11/10/11	11/12/11 21:49	MJC
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	11/10/11	11/12/11 21:49	MJC
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	11/10/11	11/12/11 21:49	MJC
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	11/10/11	11/12/11 21:49	MJC
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	11/10/11	11/12/11 21:49	MJC
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	11/10/11	11/12/11 21:49	MJC
Surrogates	% Recovery		Recovery Limits		Flag				
Decachlorobiphenyl [1]	74.0		30-150				11/12/11 21:49		
Decachlorobiphenyl [2]	77.5		30-150				11/12/11 21:49		
Tetrachloro-m-xylene [1]	88.6		30-150				11/12/11 21:49		
Tetrachloro-m-xylene [2]	94.8		30-150				11/12/11 21:49		

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 168 Western Ave.

Sample Description:

Work Order: 11K0333

Date Received: 11/10/2011

Field Sample #: 39-3ft

Sampled: 11/9/2011 11:35

Sample ID: 11K0333-10

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	91.9		% Wt	1		SM 2540G	11/10/11	11/11/11 9:19	WAL

Project Location: 168 Western Ave.

Sample Description:

Work Order: 11K0333

Date Received: 11/10/2011

Sampled: 11/9/2011 11:50

Field Sample #: 40-S

Sample ID: 11K0333-11

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.13	mg/Kg dry	1		SW-846 8082A	11/10/11	11/12/11 22:02	MJC
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	1		SW-846 8082A	11/10/11	11/12/11 22:02	MJC
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	1		SW-846 8082A	11/10/11	11/12/11 22:02	MJC
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	1		SW-846 8082A	11/10/11	11/12/11 22:02	MJC
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	1		SW-846 8082A	11/10/11	11/12/11 22:02	MJC
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	1		SW-846 8082A	11/10/11	11/12/11 22:02	MJC
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	1		SW-846 8082A	11/10/11	11/12/11 22:02	MJC
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	1		SW-846 8082A	11/10/11	11/12/11 22:02	MJC
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	1		SW-846 8082A	11/10/11	11/12/11 22:02	MJC
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	62.7	30-150							
Decachlorobiphenyl [2]	67.9	30-150							
Tetrachloro-m-xylene [1]	84.8	30-150							
Tetrachloro-m-xylene [2]	89.0	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 168 Western Ave.

Sample Description:

Work Order: 11K0333

Date Received: 11/10/2011

Sampled: 11/9/2011 11:50

Field Sample #: 40-S

Sample ID: 11K0333-11

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	76.0		% Wt	1		SM 2540G	11/10/11	11/11/11 9:19	WAL

Project Location: 168 Western Ave.

Sample Description:

Work Order: 11K0333

Date Received: 11/10/2011

Sampled: 11/9/2011 11:55

Field Sample #: 40-3ft

Sample ID: 11K0333-12

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	11/10/11	11/12/11 22:15	MJC
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	11/10/11	11/12/11 22:15	MJC
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	11/10/11	11/12/11 22:15	MJC
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	11/10/11	11/12/11 22:15	MJC
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	11/10/11	11/12/11 22:15	MJC
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	11/10/11	11/12/11 22:15	MJC
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	11/10/11	11/12/11 22:15	MJC
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	11/10/11	11/12/11 22:15	MJC
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	11/10/11	11/12/11 22:15	MJC
Surrogates	% Recovery		Recovery Limits		Flag				
Decachlorobiphenyl [1]	69.9		30-150				11/12/11 22:15		
Decachlorobiphenyl [2]	73.9		30-150				11/12/11 22:15		
Tetrachloro-m-xylene [1]	92.9		30-150				11/12/11 22:15		
Tetrachloro-m-xylene [2]	97.1		30-150				11/12/11 22:15		

Project Location: 168 Western Ave.

Sample Description:

Work Order: 11K0333

Date Received: 11/10/2011

Sampled: 11/9/2011 11:55

Field Sample #: 40-3ft

Sample ID: 11K0333-12

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.3		% Wt	1		SM 2540G	11/10/11	11/11/11 9:19	WAL

Sample Extraction Data**Prep Method: % Solids-SM 2540G**

Lab Number [Field ID]	Batch	Date
11K0333-02 [S-1A-5ft]	B040803	11/10/11
11K0333-03 [34-S]	B040803	11/10/11
11K0333-04 [34-3ft]	B040803	11/10/11
11K0333-05 [35-S]	B040803	11/10/11
11K0333-06 [35-3ft]	B040803	11/10/11
11K0333-07 [36-S]	B040803	11/10/11
11K0333-08 [36-3ft]	B040803	11/10/11
11K0333-09 [39-S]	B040803	11/10/11
11K0333-10 [39-3ft]	B040803	11/10/11
11K0333-11 [40-S]	B040803	11/10/11
11K0333-12 [40-3ft]	B040803	11/10/11

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
11K0333-01 [Base B Int 5ft-B]	B040802	2.10	10.0	11/10/11

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
11K0333-02 [S-1A-5ft]	B040799	10.2	50.0	11/10/11
11K0333-03 [34-S]	B040799	10.0	50.0	11/10/11
11K0333-04 [34-3ft]	B040799	10.0	50.0	11/10/11
11K0333-05 [35-S]	B040799	10.1	50.0	11/10/11
11K0333-06 [35-3ft]	B040799	10.2	50.0	11/10/11
11K0333-07 [36-S]	B040799	10.0	50.0	11/10/11
11K0333-08 [36-3ft]	B040799	10.0	50.0	11/10/11
11K0333-09 [39-S]	B040799	10.1	50.0	11/10/11
11K0333-10 [39-3ft]	B040799	10.2	50.0	11/10/11
11K0333-11 [40-S]	B040799	10.1	50.0	11/10/11
11K0333-12 [40-3ft]	B040799	10.2	50.0	11/10/11

QUALITY CONTROL
Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B040799 - SW-846 3540C
Blank (B040799-BLK1)

Prepared: 11/10/11 Analyzed: 11/12/11

Aroclor-1016	ND	0.10	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1221	ND	0.10	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1232	ND	0.10	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1242	ND	0.10	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1248	ND	0.10	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1254	ND	0.10	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1260	ND	0.10	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1262	ND	0.10	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1268	ND	0.10	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.10	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.174		mg/Kg wet	0.200		87.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.176		mg/Kg wet	0.200		88.2	30-150			
Surrogate: Tetrachloro-m-xylene	0.176		mg/Kg wet	0.200		87.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.184		mg/Kg wet	0.200		92.1	30-150			

LCS (B040799-BS1)

Prepared: 11/10/11 Analyzed: 11/12/11

Aroclor-1016	0.18	0.10	mg/Kg wet	0.200		88.2	40-140			
Aroclor-1016 [2C]	0.19	0.10	mg/Kg wet	0.200		94.3	40-140			
Aroclor-1260	0.17	0.10	mg/Kg wet	0.200		87.2	40-140			
Aroclor-1260 [2C]	0.18	0.10	mg/Kg wet	0.200		88.3	40-140			
Surrogate: Decachlorobiphenyl	0.166		mg/Kg wet	0.200		82.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.168		mg/Kg wet	0.200		83.8	30-150			
Surrogate: Tetrachloro-m-xylene	0.168		mg/Kg wet	0.200		84.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.175		mg/Kg wet	0.200		87.7	30-150			

LCS Dup (B040799-BSD1)

Prepared: 11/10/11 Analyzed: 11/12/11

Aroclor-1016	0.19	0.10	mg/Kg wet	0.200		93.8	40-140	6.19	30	
Aroclor-1016 [2C]	0.20	0.10	mg/Kg wet	0.200		97.8	40-140	3.69	30	
Aroclor-1260	0.18	0.10	mg/Kg wet	0.200		91.0	40-140	4.22	30	
Aroclor-1260 [2C]	0.18	0.10	mg/Kg wet	0.200		91.5	40-140	3.62	30	
Surrogate: Decachlorobiphenyl	0.171		mg/Kg wet	0.200		85.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.172		mg/Kg wet	0.200		86.1	30-150			
Surrogate: Tetrachloro-m-xylene	0.178		mg/Kg wet	0.200		88.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.185		mg/Kg wet	0.200		92.7	30-150			

QUALITY CONTROL
Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B040799 - SW-846 3540C
Matrix Spike (B040799-MS1)
Source: 11K0333-02

Prepared: 11/10/11 Analyzed: 11/12/11

Aroclor-1016	0.19	0.11	mg/Kg dry	0.215	0.0	90.3	40-140			
Aroclor-1016 [2C]	0.19	0.11	mg/Kg dry	0.215	0.0	90.6	40-140			
Aroclor-1260	0.22	0.11	mg/Kg dry	0.215	0.0	101	40-140			
Aroclor-1260 [2C]	0.23	0.11	mg/Kg dry	0.215	0.0	105	40-140			
Surrogate: Decachlorobiphenyl	0.140		mg/Kg dry	0.215		65.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.152		mg/Kg dry	0.215		70.7	30-150			
Surrogate: Tetrachloro-m-xylene	0.181		mg/Kg dry	0.215		84.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.188		mg/Kg dry	0.215		87.5	30-150			

Matrix Spike Dup (B040799-MSD1)
Source: 11K0333-02

Prepared: 11/10/11 Analyzed: 11/12/11

Aroclor-1016	0.24	0.11	mg/Kg dry	0.215	0.0	110	40-140	19.4	50	
Aroclor-1016 [2C]	0.22	0.11	mg/Kg dry	0.215	0.0	102	40-140	12.1	50	
Aroclor-1260	0.24	0.11	mg/Kg dry	0.215	0.0	110	40-140	8.63	50	
Aroclor-1260 [2C]	0.24	0.11	mg/Kg dry	0.215	0.0	114	40-140	7.50	50	
Surrogate: Decachlorobiphenyl	0.155		mg/Kg dry	0.215		72.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.168		mg/Kg dry	0.215		78.2	30-150			
Surrogate: Tetrachloro-m-xylene	0.187		mg/Kg dry	0.215		87.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.191		mg/Kg dry	0.215		88.9	30-150			

Batch B040802 - SW-846 3540C
Blank (B040802-BLK1)

Prepared: 11/10/11 Analyzed: 11/12/11

Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	0.890		mg/Kg	1.00		89.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.915		mg/Kg	1.00		91.5	30-150			
Surrogate: Tetrachloro-m-xylene	0.818		mg/Kg	1.00		81.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.811		mg/Kg	1.00		81.1	30-150			

QUALITY CONTROL
Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B040802 - SW-846 3540C
LCS (B040802-BS1)

Prepared: 11/10/11 Analyzed: 11/12/11

Aroclor-1016	0.25	0.10	mg/Kg	0.250		99.0	40-140			
Aroclor-1016 [2C]	0.26	0.10	mg/Kg	0.250		103	40-140			
Aroclor-1260	0.26	0.10	mg/Kg	0.250		103	40-140			
Aroclor-1260 [2C]	0.29	0.10	mg/Kg	0.250		118	40-140			
Surrogate: Decachlorobiphenyl	0.921		mg/Kg	1.00		92.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.946		mg/Kg	1.00		94.6	30-150			
Surrogate: Tetrachloro-m-xylene	0.852		mg/Kg	1.00		85.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.844		mg/Kg	1.00		84.4	30-150			

LCS Dup (B040802-BSD1)

Prepared: 11/10/11 Analyzed: 11/12/11

Aroclor-1016	0.23	0.10	mg/Kg	0.250		91.8	40-140	7.58	30	
Aroclor-1016 [2C]	0.25	0.10	mg/Kg	0.250		102	40-140	0.760	30	
Aroclor-1260	0.25	0.10	mg/Kg	0.250		100	40-140	2.50	30	
Aroclor-1260 [2C]	0.29	0.10	mg/Kg	0.250		116	40-140	1.97	30	
Surrogate: Decachlorobiphenyl	0.906		mg/Kg	1.00		90.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.927		mg/Kg	1.00		92.7	30-150			
Surrogate: Tetrachloro-m-xylene	0.844		mg/Kg	1.00		84.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.839		mg/Kg	1.00		83.9	30-150			

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B040803 - % Solids

Duplicate (B040803-DUP4)

Source: 11K0333-02

Prepared: 11/10/11 Analyzed: 11/11/11

% Solids	92.9		% Wt		93.2			0.322	20	
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FLAG/QUALIFIER SUMMARY

- * QC result is outside of established limits.
- † Wide recovery limits established for difficult compound.
- ‡ Wide RPD limits established for difficult compound.
- # Data exceeded client recommended or regulatory level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Product/Solid	
Aroclor-1016	CT,NH,NY,ME,NC
Aroclor-1016 [2C]	CT,NH,NY,ME,NC
Aroclor-1221	CT,NH,NY,ME,NC
Aroclor-1221 [2C]	CT,NH,NY,ME,NC
Aroclor-1232	CT,NH,NY,ME,NC
Aroclor-1232 [2C]	CT,NH,NY,ME,NC
Aroclor-1242	CT,NH,NY,ME,NC
Aroclor-1242 [2C]	CT,NH,NY,ME,NC
Aroclor-1248	CT,NH,NY,ME,NC
Aroclor-1248 [2C]	CT,NH,NY,ME,NC
Aroclor-1254	CT,NH,NY,ME,NC
Aroclor-1254 [2C]	CT,NH,NY,ME,NC
Aroclor-1260	CT,NH,NY,ME,NC
Aroclor-1260 [2C]	CT,NH,NY,ME,NC
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC
Aroclor-1016 [2C]	CT,NH,NY,ME,NC
Aroclor-1221	CT,NH,NY,ME,NC
Aroclor-1221 [2C]	CT,NH,NY,ME,NC
Aroclor-1232	CT,NH,NY,ME,NC
Aroclor-1232 [2C]	CT,NH,NY,ME,NC
Aroclor-1242	CT,NH,NY,ME,NC
Aroclor-1242 [2C]	CT,NH,NY,ME,NC
Aroclor-1248	CT,NH,NY,ME,NC
Aroclor-1248 [2C]	CT,NH,NY,ME,NC
Aroclor-1254	CT,NH,NY,ME,NC
Aroclor-1254 [2C]	CT,NH,NY,ME,NC
Aroclor-1260	CT,NH,NY,ME,NC
Aroclor-1260 [2C]	CT,NH,NY,ME,NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	01/1/2012
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Public Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2012
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2012
RI	Rhode Island Department of Health	LAO00112	12/30/2011
NC	North Carolina Div. of Water Quality	652	12/31/2011
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2012
ME	State of Maine	2011028	06/9/2013



con-test
ANALYTICAL LABORATORY

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page 1 of 2

Company Name: ATC

Telephone: 781 932 9400

Address: 1000 Leominster Park

Project # 60.21865.0014

City: Leominster, MA

Client PO#

Attention: John Decker

DATA DELIVERY (check all that apply)
☐ FAX ☒ EMAIL ☐ WEBSITE

Project Location: 1008 Western Ave

Fax #

Sampled By: JE, CA, EM

Email: John Decker & Associates

Project Proposal Provided? (for billing purposes)
☐ Yes ☐ No

Format: ☒ PDF ☒ EXCEL ☐ GIS

Proposal date

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	*Matrix	Lab Date
01	Base Bit 5-13	11/9/11	9:30		Y	S	U
02	5-1A-5'		11:50				
03	34-5		1:00				
04	34-3'		1:05				
05	35-5		1:30				
06	35-3'		1:35				
07	36-5		1:50				
08	36-3'		1:55				
09	39-5		11:30				
10	39-3'		11:35				

Comments: 46 hr - TAT

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Received by (signature)

Date/Time: 11/9/11 3:30

Turnaround ^{††}
☐ 7-Day
☐ 10-Day
☐ Other

Detection Limit Requirements
Massachusetts: MA MCD

Is your project MCP or RCP?
☐ MCP Analytical Certification Form Required
☐ RCP Analysis Certification Form Required
☐ MA State DW Form Required PWSID #

Received by (signature)

Date/Time: 11-10-11

☐ 24-Hr ☒ 48-Hr

Connecticut: MA MCD

Received by (signature)

Date/Time: 11-10-11

☐ 24-Hr ☒ 48-Hr

Connecticut: MA MCD

Received by (signature)

Date/Time: 11/10/11 17:45

☐ 24-Hr ☒ 48-Hr

Connecticut: MA MCD

Received by (signature)

Date/Time: 11/10/11 17:45

☐ 24-Hr ☒ 48-Hr

Connecticut: MA MCD



NELAC & AIHA Certified
WB/DBE Certified

# of Containers	** Preservation	*** Container Code	Dissolved Metals
			<input type="checkbox"/> Field Filtered <input type="checkbox"/> Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V=vial
S=Summa can
T=tetlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other

*Matrix Code:
GW = groundwater
WW = wastewater
DW = drinking water
A = air
S = soil/solid
SL = sludge
O = other

COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

Company Name: ATC

Telephone: 781-932-9400

Address: 600 W. Cummings Rd.

Project # 60,21865,0014

Attention: Day Roback

Client PO#

Project Location: 168 Western Ave

DATA DELIVERY (check all that apply)
☐ FAX ☒ EMAIL ☒ WEBSITE

Sampled By: IM, CA

Fax #
Email: Jason.Roback@ATCLabs.com

Project Proposal Provided? (for billing purposes)

☐ Yes ☐ No

Collection

☐ "Enhanced Data Package"

Con-Test Lab ID

Beginning Date/Time

Ending Date/Time

Composite

Grab

*Matrix

Lab Code

Lab Code

Lab Code

Lab Code

Lab Code

Lab Code

Lab Code

Lab Code

Lab Code

Lab Code

Lab Code

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39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com



Sample Receipt Checklist

CLIENT NAME: ATC RECEIVED BY: C.C-S DATE: 11/10/11

1) Was the chain(s) of custody relinquished and signed? Yes No No CoC Included

2) Does the chain agree with the samples? Yes No

If not, explain:

3) Are all the samples in good condition? Yes No

If not, explain:

4) How were the samples received:

On Ice ☒ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☒

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 5.5°C

5) Are there Dissolved samples for the lab to filter? Yes No

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? Yes No

Who was notified _____ Date _____ Time _____

7) Location where samples are stored:

19

Permission to subcontract samples? Yes No

(Walk-in clients only) if not already approved

Client Signature: _____

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)	<u>1</u>	2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	<u>1</u>
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____
Bisulfate _____ # DI Water _____
Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

Do all samples have the proper Acid pH: Yes No N/A _____

Doc# 277

Do all samples have the proper Base pH: Yes No N/A _____

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ANALYTICAL REPORT

Lab Number:	L1118671
Client:	ATC Associates, Inc. 600 West Cummings Park Suite 5450 Woburn, MA 01801
ATTN:	Jason Roback
Phone:	(781) 404-1419
Project Name:	168 WESTERN AVE
Project Number:	060.21865.0014
Report Date:	11/15/11

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: NY (11627), CT (PH-0141), NH (2206), NJ NELAP (MA015), RI (LAO00299), PA (68-02089), LA NELAP (03090), FL (E87814), TX (T104704419), WA (C954), DOD (L2217.01), USDA (Permit #P330-11-00109), US Army Corps of Engineers.

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com



Project Name: 168 WESTERN AVE
Project Number: 060.21865.0014

Lab Number: L1118671
Report Date: 11/15/11

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1118671-01	LP-205	168 WESTERN AVE, ALLSTON	11/09/11 15:33
L1118671-02	LP-225	168 WESTERN AVE, ALLSTON	11/09/11 15:34
L1118671-03	LP-281	168 WESTERN AVE, ALLSTON	11/09/11 15:35

Project Name: 168 WESTERN AVE
Project Number: 060.21865.0014

Lab Number: L1118671
Report Date: 11/15/11

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

For additional information, please contact Client Services at 800-624-9220.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:  Cynthia McQueen

Title: Technical Director/Representative

Date: 11/15/11

ORGANICS

SEMIVOLATILES

Project Name: 168 WESTERN AVE**Lab Number:** L1118671**Project Number:** 060.21865.0014**Report Date:** 11/15/11**SAMPLE RESULTS**

Lab ID: L1118671-01
Client ID: LP-205
Sample Location: 168 WESTERN AVE, ALLSTON
Matrix: Air Cartridge
Analytical Method: 105,680/8270C-SIM(M)
Analytical Date: 11/15/11 02:18
Analyst: JS

Date Collected: 11/09/11 15:33
Date Received: 11/09/11
Field Prep: Not Specified
Extraction Method: EPA 3540C
Extraction Date: 11/11/11 13:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB Homologs by GC/MS-SIM (LowVol) - Mansfield Lab						
Monochlorobiphenyls	27.3		ng/cart	10.0	--	1
Dichlorobiphenyls	42.0		ng/cart	10.0	--	1
Trichlorobiphenyls	36.6		ng/cart	10.0	--	1
Tetrachlorobiphenyls	33.5		ng/cart	10.0	--	1
Pentachlorobiphenyls	43.3		ng/cart	10.0	--	1
Hexachlorobiphenyls	ND		ng/cart	10.0	--	1
Heptachlorobiphenyls	ND		ng/cart	10.0	--	1
Octachlorobiphenyls	ND		ng/cart	10.0	--	1
Nonachlorobiphenyls	ND		ng/cart	10.0	--	1
Decachlorobiphenyl	ND		ng/cart	10.0	--	1
Total Homologs	183		ng/cart	10.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Cl3-BZ#19-C13	91		50-125
Cl8-BZ#202-C13	100		50-125

Project Name: 168 WESTERN AVE**Lab Number:** L1118671**Project Number:** 060.21865.0014**Report Date:** 11/15/11**SAMPLE RESULTS**

Lab ID: L1118671-02
Client ID: LP-225
Sample Location: 168 WESTERN AVE, ALLSTON
Matrix: Air Cartridge
Analytical Method: 105,680/8270C-SIM(M)
Analytical Date: 11/15/11 03:14
Analyst: JS

Date Collected: 11/09/11 15:34
Date Received: 11/09/11
Field Prep: Not Specified
Extraction Method: EPA 3540C
Extraction Date: 11/11/11 13:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB Homologs by GC/MS-SIM (LowVol) - Mansfield Lab						
Monochlorobiphenyls	16.4		ng/cart	10.0	--	1
Dichlorobiphenyls	24.4		ng/cart	10.0	--	1
Trichlorobiphenyls	16.5		ng/cart	10.0	--	1
Tetrachlorobiphenyls	25.2		ng/cart	10.0	--	1
Pentachlorobiphenyls	27.2		ng/cart	10.0	--	1
Hexachlorobiphenyls	ND		ng/cart	10.0	--	1
Heptachlorobiphenyls	ND		ng/cart	10.0	--	1
Octachlorobiphenyls	ND		ng/cart	10.0	--	1
Nonachlorobiphenyls	ND		ng/cart	10.0	--	1
Decachlorobiphenyl	ND		ng/cart	10.0	--	1
Total Homologs	110		ng/cart	10.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Cl3-BZ#19-C13	91		50-125
Cl8-BZ#202-C13	93		50-125

Project Name: 168 WESTERN AVE**Lab Number:** L1118671**Project Number:** 060.21865.0014**Report Date:** 11/15/11**SAMPLE RESULTS**

Lab ID: L1118671-03
Client ID: LP-281
Sample Location: 168 WESTERN AVE, ALLSTON
Matrix: Air Cartridge
Analytical Method: 105,680/8270C-SIM(M)
Analytical Date: 11/15/11 04:10
Analyst: JS

Date Collected: 11/09/11 15:35
Date Received: 11/09/11
Field Prep: Not Specified
Extraction Method: EPA 3540C
Extraction Date: 11/11/11 13:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB Homologs by GC/MS-SIM (LowVol) - Mansfield Lab						
Monochlorobiphenyls	33.0		ng/cart	10.0	--	1
Dichlorobiphenyls	41.6		ng/cart	10.0	--	1
Trichlorobiphenyls	25.3		ng/cart	10.0	--	1
Tetrachlorobiphenyls	21.3		ng/cart	10.0	--	1
Pentachlorobiphenyls	ND		ng/cart	10.0	--	1
Hexachlorobiphenyls	ND		ng/cart	10.0	--	1
Heptachlorobiphenyls	ND		ng/cart	10.0	--	1
Octachlorobiphenyls	ND		ng/cart	10.0	--	1
Nonachlorobiphenyls	ND		ng/cart	10.0	--	1
Decachlorobiphenyl	ND		ng/cart	10.0	--	1
Total Homologs	121		ng/cart	10.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Cl3-BZ#19-C13	97		50-125
Cl8-BZ#202-C13	101		50-125

Project Name: 168 WESTERN AVE

Lab Number: L1118671

Project Number: 060.21865.0014

Report Date: 11/15/11

Method Blank Analysis Batch Quality Control

Analytical Method: 105,680/8270C-SIM(M)

Extraction Method: EPA 3540C

Analytical Date: 11/14/11 14:27

Extraction Date: 11/11/11 13:38

Analyst: JS

Parameter	Result	Qualifier	Units	RL	MDL
PCB Homologs by GC/MS-SIM (LowVol) - Mansfield Lab for sample(s): 01-03 Batch: WG501748-1					
Monochlorobiphenyls	ND		ng/cart	10.0	--
Dichlorobiphenyls	ND		ng/cart	10.0	--
Trichlorobiphenyls	ND		ng/cart	10.0	--
Tetrachlorobiphenyls	ND		ng/cart	10.0	--
Pentachlorobiphenyls	ND		ng/cart	10.0	--
Hexachlorobiphenyls	ND		ng/cart	10.0	--
Heptachlorobiphenyls	ND		ng/cart	10.0	--
Octachlorobiphenyls	ND		ng/cart	10.0	--
Nonachlorobiphenyls	ND		ng/cart	10.0	--
Decachlorobiphenyl	ND		ng/cart	10.0	--
Total Homologs	ND		ng/cart	10.0	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Cl3-BZ#19-C13	91		50-125
Cl8-BZ#202-C13	97		50-125

Lab Control Sample Analysis

Batch Quality Control

Project Name: 168 WESTERN AVE

Project Number: 060.21865.0014

Lab Number: L1118671

Report Date: 11/15/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
PCB Homologs by GC/MS-SIM (LowVol) - Mansfield Lab Associated sample(s): 01-03 Batch: WG501748-2								
Cl1-BZ#1	102		-		40-140	-		30
CL1-BZ#3	109		-		40-140	-		30
Cl2-BZ#4/#10	121		-		40-140	-		30
Cl2-BZ#5/#8	102		-		40-140	-		30
Cl3-BZ#19	112		-		40-140	-		30
Cl3-BZ#18	101		-		40-140	-		30
Cl2-BZ#15	99		-		40-140	-		30
Cl4-BZ#54	112		-		40-140	-		30
Cl3-BZ#29	94		-		40-140	-		30
Cl4-BZ#50	113		-		40-140	-		30
Cl3-BZ#28/#31	101		-		40-140	-		30
Cl4-BZ#45	123		-		40-140	-		30
Cl4-BZ#52	99		-		40-140	-		30
Cl4-BZ#43/#49	110		-		40-140	-		30
Cl4-Bz#47/#48	103		-		40-140	-		30
Cl5-BZ#104	110		-		40-140	-		30
Cl4-BZ#44	101		-		40-140	-		30
Cl3-BZ#37	83		-		40-140	-		30
Cl4-BZ#74	95		-		40-140	-		30
Cl6-BZ#155	115		-		40-140	-		30
Cl4-BZ#70	93		-		40-140	-		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 168 WESTERN AVE

Project Number: 060.21865.0014

Lab Number: L1118671

Report Date: 11/15/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
PCB Homologs by GC/MS-SIM (LowVol) - Mansfield Lab Associated sample(s): 01-03 Batch: WG501748-2								
Cl4-BZ#66	97		-		40-140	-		30
Cl5-BZ#95	99		-		40-140	-		30
Cl4-BZ#56/#60	90		-		40-140	-		30
Cl5-BZ#101/#84	111		-		40-140	-		30
Cl5-BZ#99	105		-		40-140	-		30
Cl6-BZ#154	100		-		40-140	-		30
Cl5-BZ#110	89		-		40-140	-		30
Cl4-BZ#81	96		-		40-140	-		30
Cl5-BZ#87	96		-		40-140	-		30
Cl6-BZ#151	99		-		40-140	-		30
Cl4-BZ#77	92		-		40-140	-		30
Cl5-BZ#123	89		-		40-140	-		30
Cl6-BZ#149	103		-		40-140	-		30
Cl7-BZ#188	99		-		40-140	-		30
Cl5-BZ#118	93		-		40-140	-		30
Cl6-BZ#146	92		-		40-140	-		30
Cl5-BZ#114	89		-		40-140	-		30
Cl6-BZ#153	91		-		40-140	-		30
Cl6-BZ#138/#163	77		-		40-140	-		30
Cl6-BZ#158	94		-		40-140	-		30
Cl5-BZ#105	83		-		40-140	-		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 168 WESTERN AVE

Project Number: 060.21865.0014

Lab Number: L1118671

Report Date: 11/15/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
PCB Homologs by GC/MS-SIM (LowVol) - Mansfield Lab Associated sample(s): 01-03 Batch: WG501748-2								
Cl7-BZ#182/#187	96		-		40-140	-		30
Cl7-BZ#183	98		-		40-140	-		30
Cl6-BZ#167/#128	90		-		40-140	-		30
Cl5-BZ#126	63		-		40-140	-		30
Cl7-BZ#174	98		-		40-140	-		30
Cl8-BZ#202	110		-		40-140	-		30
Cl7-BZ#177	94		-		40-140	-		30
Cl6-BZ#156	85		-		40-140	-		30
Cl6-BZ#157	87		-		40-140	-		30
Cl7-BZ#180	103		-		40-140	-		30
Cl7-BZ#170/#190	72		-		40-140	-		30
Cl8-BZ#201	90		-		40-140	-		30
Cl6-BZ#169	80		-		40-140	-		30
Cl9-BZ#208	105		-		40-140	-		30
Cl7-BZ#189	86		-		40-140	-		30
Cl8-BZ#195	93		-		40-140	-		30
Cl8-BZ#194	88		-		40-140	-		30
Cl8-BZ#205	95		-		40-140	-		30
Cl9-BZ#206	92		-		40-140	-		30
Cl10-BZ#209	92		-		40-140	-		30

Lab Control Sample Analysis**Batch Quality Control****Project Name:** 168 WESTERN AVE**Project Number:** 060.21865.0014**Lab Number:** L1118671**Report Date:** 11/15/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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PCB Homologs by GC/MS-SIM (LowVol) - Mansfield Lab Associated sample(s): 01-03 Batch: WG501748-2

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Cl3-BZ#19-C13	96				50-125
Cl8-BZ#202-C13	103				50-125

Project Name: 168 WESTERN AVE**Project Number:** 060.21865.0014**Lab Number:** L1118671**Report Date:** 11/15/11**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Reagent H2O Preserved Vials Frozen on: NA**Cooler Information Custody Seal****Cooler**

A

Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1118671-01A	PUF Air Cartridge (PCB) - Low	A	N/A	4.7	Y	Absent	A2-PCBHOMS-8270SIML(7)
L1118671-02A	PUF Air Cartridge (PCB) - Low	A	N/A	4.7	Y	Absent	A2-PCBHOMS-8270SIML(7)
L1118671-03A	PUF Air Cartridge (PCB) - Low	A	N/A	4.7	Y	Absent	A2-PCBHOMS-8270SIML(7)

*Values in parentheses indicate holding time in days

Project Name: 168 WESTERN AVE
Project Number: 060.21865.0014

Lab Number: L1118671
Report Date: 11/15/11

GLOSSARY

Acronyms

EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

- | | |
|-----------|---|
| A | - Spectra identified as "Aldol Condensation Product". |
| B | - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. |
| C | - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses. |
| D | - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte. |
| E | - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument. |
| G | - The concentration may be biased high due to matrix interferences (i.e., co-elution) with non-target compound(s). The result should be considered estimated. |
| H | - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection. |
| I | - The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported due to obvious interference. |
| M | - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte. |
| NJ | - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search. |

Report Format: Data Usability Report



Project Name: 168 WESTERN AVE**Lab Number:** L1118671**Project Number:** 060.21865.0014**Report Date:** 11/15/11**Data Qualifiers**

- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report

Project Name: 168 WESTERN AVE
Project Number: 060.21865.0014

Lab Number: L1118671
Report Date: 11/15/11

REFERENCES

- 105 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997 in conjunction with Determination of Pesticides and PCBs in Water and Oil/Sediment by GC/MS: Method 680. EPA 01A0005295, November 1985.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certificate/Approval Program Summary

Last revised September 19, 2011 – Mansfield Facility

The following list includes only those analytes/methods for which certification/approval is currently held. For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0141.

Wastewater/Non-Potable Water (Inorganic Parameters: pH, Turbidity, Conductivity, Alkalinity, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Vanadium, Zinc, Total Residue (Solids), Total Suspended Solids (non-filterable), Total Cyanide. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables, Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, PAHs, Haloethers, Chlorinated Hydrocarbons, Volatile Organics.)

Solid Waste/Soil (Inorganic Parameters: pH, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Organic Carbon, Total Cyanide, Corrosivity, TCLP 1311. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Volatile Organics, Acid Extractables, Benzidines, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Florida Department of Health Certificate/Lab ID: E87814. *NELAP Accredited.*

Non-Potable Water (Inorganic Parameters: SM2320B, SM2540D, SM2540G.)

Solid & Chemical Materials (Inorganic Parameters: 6020, 7470, 7471, 9045. Organic Parameters: EPA 8260, 8270, 8082, 8081.)

Air & Emissions (EPA TO-15.)

Louisiana Department of Environmental Quality Certificate/Lab ID: 03090. *NELAP Accredited.*

Non-Potable Water (Inorganic Parameters: EPA 180.1, 245.7, 1631E, 3020, 6020A, 7470A, 9040, 9050A, SM2320B, 2540D, 2540G, 4500H-B, Organic Parameters: EPA 3510C, 3580A, 3630C, 3640A, 3660B, 3665A, 5030B, 8015D, 3570, 8081B, 8082A, 8260B, 8270C, 8270D.)

Solid & Chemical Materials (Inorganic Parameters: EPA 1311, 3050, 3051A, 3060A, 6020A, 7196A, 7470A, 7471B, 7474, 9040B, 9045C, 9060. Organic Parameters: EPA 3540C, 3570B, 3580A, 3630C, 3640A, 3660, 3665A, 5035, 8015D, 8081B, 8082A, 8260B, 8270C, 8270D.)

Biological Tissue (Inorganic Parameters: EPA 6020A. Organic Parameters: EPA 3570, 3510C, 3610B, 3630C, 3640A, 8270C, 8270D.)

Air & Emissions (EPA TO-15.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 2206. *NELAP Accredited.*

Non-Potable Water (Inorganic Parameters: EPA 245.7, 1631E, 6020A, 7470A, 9040B, 9050A, SM2540D, 2540G, 4500H+B, 2320B. Organic Parameters: EPA 8081B, 8082A, 8260B, 8270C, 8015D.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 1311, 1312, 3050B, 3051A, 3060A, 6020A, 7471A, 9040B, 9045C, 7196A. Organic Parameters: SW-846 3540C, 3580A, 3630C, 3640A, 3660B, 3665A, 5035, 8260B, 8270C, 8015D, 8082A, 8081B.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA015. *NELAP Accredited.*

Non-Potable Water (Inorganic Parameters: SW-846 1312, 3010, 3020A, 3015, SM2320B, SM2540D, 2540G, , EPA 180.1, 1631E, SW-846 7470A, 9040B, 6020. Organic Parameters: SW-846 3510C, 3580A, 5030B, 5035L, 5035H, 3630C, 3640C, 3660B, 3665A, 8015B 8081A, 8082, 8260B, 8270C)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6020, 1311, 1312, 3050B, 3051, 3060A, 7196A, 7470A, 7471A, 9040B, 9045C, 9050A, 9060. Organic Parameters: SW-846 3540C, 3570, 3580A, 5030B, 5035L, 5035H, 3630C, 3640A, 3660B, 3665A, 8081A, 8082, 8260B, 8270C, 8015B.)

Atmospheric Organic Parameters (EPA TO-15)

Biological Tissue (Inorganic Parameters: SW-846 6020 Organic Parameters: SW-846 8270C, 3510C, 3570, 3610C, 3630C, 3640A)

New York Department of Health Certificate/Lab ID: 11627. **NELAP Accredited.**

Non-Potable Water (Inorganic Parameters: SM2320B, SM2540D, EPA 200.8, 6020, 1631E, 245.1, 245.7, 7470A, 9014, 9040B, 9050, 120.1, 4500CN-E, 4500H-B, EPA 376.2, 180.1, 3020A. Organic Parameters: EPA 8260B, 8270C, 8081A, 8082, 3510C, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 6020, 7196A, 3060A, 7471A, 7474, 9014, 9040B, 9045C, 9010B. Organic Parameters: EPA 8260B, 8270C, 8081A, DRO 8015B, 8082, 1311, 1312, 3050B, 3580, 3570, 3051, 5035, 5030B.)

Air & Emissions (EPA TO-15.)

Pennsylvania Certificate/Lab ID: 68-02089 **NELAP Accredited**

Solid & Hazardous Waste (Inorganic Parameters: EPA 6020A, 7471B, 7474. Organic Parameters: EPA 3050B, 3540C, 3630C, 8270C, 8081B, 8082A.)

Rhode Island Department of Health Certificate/Lab ID: LAO00299. **NELAP Accredited via LA-DEQ.**

Refer to LA-DEQ Certificate for Non-Potable Water.

Texas Commission of Environmental Quality Certificate/Lab ID: T104704419-08-TX. **NELAP Accredited.**

Solid & Chemical Materials (Inorganic Parameters: EPA 6020, 7470, 7471, 1311, 7196, 9040, 9045, 9060. Organic Parameters: EPA 8015, 8270, 8260, 8081, 8082.)

Air (Organic Parameters: EPA TO-15)

Washington State Department of Ecology Certificate/Lab ID: C954. *Non-Potable Water* (Inorganic Parameters: SM2540D, 2510B, EPA 120.1, 180.1, 1631E, 245.7.)

Solid & Chemical Materials (Inorganic Parameters: EPA 9040, 9060, 6020, 7470, 7471, 7474. Organic Parameters: EPA 8081, 8082, 8015 Mod, 8270, 8260.)

U.S. Army Corps of Engineers

Department of Defense Certificate/Lab ID: L2217.01.

Non-Potable Water (Inorganic Parameters: EPA 6020A, SM4500H-B. Organic Parameters: 3020A, 3510C, 5030B, 8260B, 8270C, 8270C-ALK-PAH, 8082, 8081A, 8015D-SHC.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 3050B, 6020A, 7471A, 9045C, 9060, SM 2540G, ASTM D422-63. Organic Parameters: EPA 3580A, 3570, 3540C, 5035A, 8260B, 8270C, 8270-ALK-PAH, 8082, 8081A, 8015D-SHC, 8015-DRO.

Air & Emissions (EPA TO-15.)

Analytes Not Accredited by NELAP

Certification is not available by NELAP for the following analytes: **8270C**: Biphenyl. **TO-15**: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 2-Methylnaphthalene, 1-Methylnaphthalene.

November 18, 2011

Jason Roback
ATC Associates - Woburn
600 W Cummings Park, Suite 5500
Woburn, MA 01801

Project Location: Western Ave.
Client Job Number:
Project Number: 060.21865.0014
Laboratory Work Order Number: 11K0549

Enclosed are results of analyses for samples received by the laboratory on November 16, 2011. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, reading "Meghan E. Kelley". The signature is written in a cursive, flowing style.

Meghan E. Kelley
Project Manager

ATC Associates - Woburn
600 W Cummings Park, Suite 5500
Woburn, MA 01801
ATTN: Jason Roback

REPORT DATE: 11/18/2011

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 060.21865.0014

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 11K0549

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Western Ave.

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
Base B-Interior-7'-B	11K0549-01	Product/Solid		SW-846 8082A	
Base B- Interior-5'-D	11K0549-02	Product/Solid		SW-846 8082A	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

A handwritten signature in black ink, appearing to read "M. Erickson", is displayed on a light gray rectangular background.

Michael A. Erickson
Laboratory Director

Project Location: Western Ave.

Sample Description:

Work Order: 11K0549

Date Received: 11/16/2011

Field Sample #: Base B-Interior-7'-B

Sampled: 11/9/2011 11:00

Sample ID: 11K0549-01

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	11/16/11	11/17/11 23:20	MJC
Aroclor-1221 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	11/16/11	11/17/11 23:20	MJC
Aroclor-1232 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	11/16/11	11/17/11 23:20	MJC
Aroclor-1242 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	11/16/11	11/17/11 23:20	MJC
Aroclor-1248 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	11/16/11	11/17/11 23:20	MJC
Aroclor-1254 [2]	0.78	0.091	mg/Kg	1		SW-846 8082A	11/16/11	11/17/11 23:20	MJC
Aroclor-1260 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	11/16/11	11/17/11 23:20	MJC
Aroclor-1262 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	11/16/11	11/17/11 23:20	MJC
Aroclor-1268 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	11/16/11	11/17/11 23:20	MJC
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	72.8	30-150							
Decachlorobiphenyl [2]	76.2	30-150							
Tetrachloro-m-xylene [1]	70.4	30-150							
Tetrachloro-m-xylene [2]	69.5	30-150							

Project Location: Western Ave.

Sample Description:

Work Order: 11K0549

Date Received: 11/16/2011

Field Sample #: Base B- Interior-5'-D

Sampled: 11/9/2011 13:00

Sample ID: 11K0549-02

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	11/16/11	11/17/11 23:33	MJC
Aroclor-1221 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	11/16/11	11/17/11 23:33	MJC
Aroclor-1232 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	11/16/11	11/17/11 23:33	MJC
Aroclor-1242 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	11/16/11	11/17/11 23:33	MJC
Aroclor-1248 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	11/16/11	11/17/11 23:33	MJC
Aroclor-1254 [1]	0.99	0.095	mg/Kg	1		SW-846 8082A	11/16/11	11/17/11 23:33	MJC
Aroclor-1260 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	11/16/11	11/17/11 23:33	MJC
Aroclor-1262 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	11/16/11	11/17/11 23:33	MJC
Aroclor-1268 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	11/16/11	11/17/11 23:33	MJC
Surrogates	% Recovery		Recovery Limits		Flag				
Decachlorobiphenyl [1]	71.1		30-150				11/17/11 23:33		
Decachlorobiphenyl [2]	74.3		30-150				11/17/11 23:33		
Tetrachloro-m-xylene [1]	68.8		30-150				11/17/11 23:33		
Tetrachloro-m-xylene [2]	65.1		30-150				11/17/11 23:33		

Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
11K0549-01 [Base B-Interior-7'-B]	B041112	2.20	10.0	11/16/11
11K0549-02 [Base B- Interior-5'-D]	B041112	2.10	10.0	11/16/11

QUALITY CONTROL
Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B041112 - SW-846 3540C
Blank (B041112-BLK1)

Prepared: 11/16/11 Analyzed: 11/17/11

Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	0.961		mg/Kg	1.00		96.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.960		mg/Kg	1.00		96.0	30-150			
Surrogate: Tetrachloro-m-xylene	0.858		mg/Kg	1.00		85.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.826		mg/Kg	1.00		82.6	30-150			

LCS (B041112-BS1)

Prepared: 11/16/11 Analyzed: 11/17/11

Aroclor-1016	0.23	0.10	mg/Kg	0.250		91.8	40-140			
Aroclor-1016 [2C]	0.23	0.10	mg/Kg	0.250		93.2	40-140			
Aroclor-1260	0.27	0.10	mg/Kg	0.250		109	40-140			
Aroclor-1260 [2C]	0.26	0.10	mg/Kg	0.250		104	40-140			
Surrogate: Decachlorobiphenyl	0.932		mg/Kg	1.00		93.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.923		mg/Kg	1.00		92.3	30-150			
Surrogate: Tetrachloro-m-xylene	0.836		mg/Kg	1.00		83.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.805		mg/Kg	1.00		80.5	30-150			

LCS Dup (B041112-BSD1)

Prepared: 11/16/11 Analyzed: 11/17/11

Aroclor-1016	0.22	0.10	mg/Kg	0.250		88.7	40-140	3.41	30	
Aroclor-1016 [2C]	0.22	0.10	mg/Kg	0.250		89.2	40-140	4.37	30	
Aroclor-1260	0.26	0.10	mg/Kg	0.250		104	40-140	4.19	30	
Aroclor-1260 [2C]	0.25	0.10	mg/Kg	0.250		99.9	40-140	4.46	30	
Surrogate: Decachlorobiphenyl	0.915		mg/Kg	1.00		91.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.908		mg/Kg	1.00		90.8	30-150			
Surrogate: Tetrachloro-m-xylene	0.819		mg/Kg	1.00		81.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.789		mg/Kg	1.00		78.9	30-150			

FLAG/QUALIFIER SUMMARY

- * QC result is outside of established limits.
- † Wide recovery limits established for difficult compound.
- ‡ Wide RPD limits established for difficult compound.
- # Data exceeded client recommended or regulatory level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

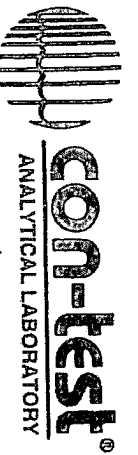
CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8082A in Product/Solid</i>	
Aroclor-1016	CT,NH,NY,ME,NC
Aroclor-1016 [2C]	CT,NH,NY,ME,NC
Aroclor-1221	CT,NH,NY,ME,NC
Aroclor-1221 [2C]	CT,NH,NY,ME,NC
Aroclor-1232	CT,NH,NY,ME,NC
Aroclor-1232 [2C]	CT,NH,NY,ME,NC
Aroclor-1242	CT,NH,NY,ME,NC
Aroclor-1242 [2C]	CT,NH,NY,ME,NC
Aroclor-1248	CT,NH,NY,ME,NC
Aroclor-1248 [2C]	CT,NH,NY,ME,NC
Aroclor-1254	CT,NH,NY,ME,NC
Aroclor-1254 [2C]	CT,NH,NY,ME,NC
Aroclor-1260	CT,NH,NY,ME,NC
Aroclor-1260 [2C]	CT,NH,NY,ME,NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	01/1/2012
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Public Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2012
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2012
RI	Rhode Island Department of Health	LAO00112	12/30/2011
NC	North Carolina Div. of Water Quality	652	12/31/2011
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2012
ME	State of Maine	2011028	06/9/2013



Phone: 413-525-2332
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www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 SPRUCE ST, 2ND FLOOR
EAST LONGMEADOW, MA 01028

Page 1 of 1

11K0549

Company Name: ATC Associates

Address: 600 W. Cummings Rd. #3450

Woburn, MA 01801

Attention: J. ROBACK

Project Location: 168 Webster Ave.

Sampled By: J. ROBACK

Proposal Provided? (For Billing purposes) ☐ yes ☐ no

State Form Required? ☐ yes ☐ no

Client PO #

Telephone: (413) 404-1419

Project # 100.21865.0014

DATA DELIVERY (check one):

☐ FAX ☒ EMAIL ☐ WEBSITE CLIENT

Fax #:

Email: jas@back@atcassociates.com

Format: ☒ EXCEL ☐ PDF ☐ GIS KEY

☐ OTHER

Date Sampled

Start Date/Time

Stop Date/Time

Comp- osite

Grab

*Matrix | Conc. Code | Code

01 BAS-B-INTERIOR-7'-B

11/9/11 11:00 AM

02 BAS-B-INTERIOR-5'-D

11/9/11 1:00 PM

ANALYSIS REQUESTED

-Cont. Code:

A=amber glass

G=glass

P=plastic

ST=sterile

V=vial

S=summa can

T=tedlar bag

O=Other

Client

Comments:

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com



Sample Receipt Checklist

CLIENT NAME: ATC RECEIVED BY: MLK DATE: 11/16/11

1) Was the chain(s) of custody relinquished and signed? Yes No No CoC Included

2) Does the chain agree with the samples? Yes No

If not, explain:

3) Are all the samples in good condition? Yes No

If not, explain:

4) How were the samples received:

On Ice ☒ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☒

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 240C

5) Are there Dissolved samples for the lab to filter? Yes No

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? Yes No

Who was notified _____ Date _____ Time _____

7) Location where samples are stored:

log-in

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	<u>2</u>
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____
Bisulfate _____ # DI Water _____
Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

Do all samples have the proper Acid pH: Yes No N/A

Do all samples have the proper Base pH: Yes No N/A

Doc# 277

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Specification for PCB Remediation of Building Materials (Section 020720)

SECTION 020720

PCB REMEDIATION OF BUILDING MATERIALS

PART 1- GENERAL

1.01 GENERAL PROVISIONS

- A. Attention is directed to the Contract and General Conditions and all Sections within Division 1 - General Requirements that are hereby made a part of this Section of the Specifications.
- B. Equality of material, article assembly or system other than those named or described in this Section shall be determined in accordance with the provisions of the Contract and General Conditions.
- C. Bulk samples of specific non-liquid building materials at 168 Western Avenue in Allston, Massachusetts have been collected and tested for polychlorinated biphenyls (PCBs) by ATC Associates Inc. (ATC) of Woburn, Massachusetts, as described in their report, *Request for Approval of TSCA Risk-Based Clean-up of PCBs under 40 CFR 761*, December 13, 2011. This report provides information on the materials that were tested, analytical results, and locations of confirmed PCB-containing materials. A copy of this report is included herewith as part of this specification section.
- D. The Contractor shall be aware of all conditions of the Project and is responsible for verifying quantities and locations of all Work to be performed. Failure to do so shall not relieve the Contractor of its obligations to furnish all labor and materials necessary to perform the Work.
- E. The Contractor, or remediation Subcontractor, is responsible for conducting all Work as part of the PCB Remediation portion of 168 Western Avenue, Allston, Massachusetts in accordance with this specification, with all referenced documents included as part of this specification, with the standards and guidance documents listed below, and with all Federal, state and local regulations.

1.02 DESCRIPTION OF WORK

- A. It is the intent of the Work described in this section to segregate and remediate any PCB-containing materials that are scheduled to be removed or encapsulated in place as part of the overall renovation project at 168 Western Avenue in Allston, Massachusetts. These materials within the project work areas include: (1) interior and exterior window/door caulking at the former Garage and Showroom; (2) abutting interior concrete spandrels, columns and ceilings; (3) limited abutting interior base (floor) concrete; (4) limited abutting exterior concrete and asphalt; (5) exterior eave/fascia caulking at the former Showroom; and (6) limited soil along the western façade of the Site building at 168 Western Avenue, Allston, Massachusetts, as described in the ATC *Request for Approval of TSCA Risk-Based Clean-up of PCBs under 40 CFR 761*.
- B. If the Contractor, or remediation Subcontractor, encounters any previously unidentified and/or untested material that is suspected to be PCB-containing, the Contractor shall stop all work in the affected area and notify the Owner who will arrange for sampling and testing of the suspect material. If the material in question is in fact PCB-containing then the Contractor, or remediation Sub-contractor, shall remove and dispose of the material in accordance with this specification, with all referenced documents included as part of this specification, and with all Federal, state and local regulations. Removal and disposal of any previously unidentified PCB-containing materials shall be performed by the Contractor at the unit prices bid for in this Contract.
- C. The work of this Section consists of, but is not limited to:
1. Furnishing of all labor, materials, facilities, equipment, services, and insurance necessary to perform the work;
 2. Maintenance of work area/site security;
 3. Preparation of work area, including installation of containment and decontamination areas as required;
 4. Removal, segregation, and/or containment of any PCB-containing materials encountered during the project work;
 5. Clean-up and final decontamination of all work areas;
 6. Implementation of a worker protection program in compliance with all applicable regulations;

- 7. Proper storage, wrapping/bagging, labeling, transportation and disposal of all waste generated as part of PCB remediation activities.
- D. The Contractor shall utilize all means possible to prevent PCB-containing materials from migrating out of the work area(s). This shall include, at a minimum, ground cover or staging/lift covers consisting of polyethylene sheeting or equivalent, engineering controls to minimize dust (i.e., wetting the material prior to cutting).
- E. The Contractor, or remediation Sub-contractor, will clean all work areas at the end of each workday and will collect and store all PCB-containing waste as specified in Part 3 of this section.

1.03 RELATED WORK

- A. Section 026000 – MISCELLANEOUS HAZARDOUS MATERIALS REMOVAL
- B. Section 028200 – ASBESTOS ABATEMENT AND RELATED WORK

1.04 PERMITS AND APPLICABLE STANDARDS

- A. The Contractor, or remediation Sub-contractor, must maintain current licenses or registrations pursuant to USEPA and MassDEP regulations for all Work related to this Project, including the removal, handling, transport, and disposal of hazardous and industrial waste.
- B. The Contractor shall perform all work in accordance with these specifications, the USEPA and OSHA regulations, the conditions of the USEPA Approval of the PCB Remediation Plan, NIOSH recommendations, MassDEP and MassDOS regulations, local statutes, local ordinances, local codes and any other applicable federal, state and local government regulations and guidelines.
- C. The Contractor shall obtain all permits required to complete the work, including but not limited to utility work permits, discharge permits, or any other permits required by local government regulations as applicable.

1.05 REFERENCES

Perform Work in accordance with all applicable regulations, including but not limited to the publications listed below, which form a part of this specification to

the extent referenced. The publications are referenced in text by basic designation only. The list provided below is not intended to be all inclusive of each regulation prevailing over the work. The latest version of the document listed shall govern the work performed. Where more stringent requirements are specified, adhere to the more stringent requirements.

A. Environmental Protection Agency

1. Polychlorinated Biphenyls (PCBs), Environmental Protection Agency, Toxic Substance Control Act, 40 CFR 761.
2. Solid Wastes, Title 40, Subchapter 1, 40 CFR 240-299.

B. Occupational Safety and Health Administration (OSHA)

1. Respiratory Protection, 29 CFR 1910.134.
2. Specification for Accident Prevention Signs and Tags, 29 CFR 1910.145.
3. Hazard Communication, 29 CFR 1910.1200.
4. Construction Industry, 29 CFR 1926.

C. U.S. Department of Transportation (USDOT)

1. Transportation Standard, 49 CFR 171-173.

D. Massachusetts Department of Environmental Protection

1. Hazardous Waste Regulations, 310 CMR 30.000.
2. Massachusetts Contingency Plan, 310 CMR 40.000.
3. Massachusetts Solid Waste Management Regulations, 310 CMR 19.000.

E. American National Standard Institute (ANSI)

1. Practices for Respiratory Protection, Z88.2-80.
2. Fundamentals Governing the Design and Operation of Local Exhaust Systems, Z9.2-79.

F. City of Cambridge, Board of Health

- G. Harvard University, Construction Environmental Health and Safety Standard.

1.06 DEFINITIONS

All terms not defined herein shall have the meaning given in the applicable publications and regulations.

- A. PCB Remediation: Procedures to control releases from PCB-containing materials. Includes encapsulation, enclosure, and removal.
- B. Air Monitoring: The process of measuring contaminant content of a specific volume of air in a stated period of time.
- C. ANSI: American National Safety Institute
- D. Remediation Contractor: Contractor responsible for conducting the work associated with the removal, handling, packaging, transportation and disposal of PCB waste materials.
- E. Authorized Visitors: Any visitor authorized by Harvard, the Engineer or any representative of a regulatory agency or other agency having jurisdiction over the project.
- F. Barrier: Any surface that seals off the work area to inhibit the movement of contaminated media.
- G. Contractor: Refers to the General Contractor and/or Subcontractor responsible for the Work under contract with Project Manager.
- H. Critical Barrier: An impermeable partition erected to constitute a work area closure.
- I. Encapsulation: All herein specified procedures necessary to coat and seal surfaces containing residual PCB-containing materials to control the possible release of contaminated media into the ambient air.
- J. Enclosure: All herein specified procedures necessary to conduct abatement of PCBs behind an airtight impermeable permanent barrier to prevent the release of contaminated media into the ambient air.
- K. Engineer: Authorized representative of the Harvard Project Manager. Engineer shall be the Architect or Designer of Record for the project.

- L. Harvard Project Manager: A representative of the Property Owner, President and Fellows of Harvard College.
- M. Harvard EH&S: Harvard University, Environmental Health and Safety Department
- N. HEPA Filter: Equipment with a High Efficiency Particulate Air (HEPA) filter, greater than 99.97 percent efficiency by 0.3-micron DOP test, and complying with ANSI Z9.2 (1979).
- O. Mass DEP: Massachusetts Department of Environmental Protection.
- P. Mass DOS: Massachusetts Department of Occupational Safety.
- Q. MSDS: Material Safety Data Sheet
- R. MSHA: Mine Safety and Health Administration
- S. NESHAP: National Emission Standards for Hazardous Air Pollutants
- T. NIOSH: National Institute of Occupational Safety and Health
- U. OSHA: Occupational, Safety and Health Administration.
- V. PCB: Polychlorinated Biphenyls
- W. *Request for Approval of TSCA Risk-Based Clean-up of PCBs under 40 CFR 761* (PCB Remediation Plan): ATC, December 13, 2011 Plan governing the removal and/or encapsulation of PCB wastes at the Site. Reference to this Plan implicitly includes the conditions of EPA's pending approval of the PCB Remediation Plan.
- X. PCB Wastes: Building sealant and caulking materials and debris, soil, disposable clothing and protective equipment, plastic sheeting and tape, exhaust systems or vacuum filters, or any remediation equipment that is or has been contaminated with PCBs and cannot be completely cleaned by vacuuming or by washing.
- Y. Removal: All herein specified procedures necessary to strip all PCBs from designated areas and to dispose of these materials at a permitted facility.
- Z. Respirator: A device designed to protect the wearer from the inhalation of harmful atmospheres.

AA. Subcontractor: Any contractor working for the General Contractor.

BB. USDOT: United States Department of Transportation

1.07 TRAINING

- A. The Contractor, or remediation Sub-contractor, is responsible for ensuring that all remediation worker personnel shall receive appropriate training and information regarding the potential hazards of PCBs, safety and health precautions, and the use and requirements of protective clothing and equipment prior to the start of any remediation work. Note that the safety requirements specified within this section are due to the presence of PCB containing materials within the Work Areas and may exceed the minimum safety requirements set forth in the Harvard University's Construction Environmental Health and Safety Standard detailed in the Contract Documents. The requirements of this section do not abrogate the Contractor's responsibility to adhere to this manual; wherever there is a conflict or overlap of requirements, the most stringent provisions shall apply.
- B. The Contractor is responsible for establishing a respirator program as required by ANSI Z88.2 and 29 CFR 1910.134. The Contractor shall provide respirator training and fit testing, and medical surveillance for those workers conducting removal or remediation activities that require the use of a respirator.

1.08 PROJECT MONITORING

- A. The Owner will contract directly with an independent consultant to perform construction oversight and testing services. These activities may include perimeter dust monitoring with a particulate dust meter during removal work to verify the effectiveness of the engineering controls and containment/controls and the collection of verification samples to document remediation completeness. In addition, Contractor personnel might be requested to wear personal sampling equipment by Harvard's consultant as a means to identify contaminant concentrations in the regulated workspace.

1.09 DELIVERY, STORAGE, AND HANDLING

- A. Deliver materials to Project site in original unopened containers.

- B. Store and handle materials in compliance with manufacturer's recommendations.

1.10 SUBMITTALS

- A. The Contractor shall submit each item in this Article according to the conditions of the Contract, for information only, unless otherwise indicated.
- B. All Contractor submittals shall be submitted to the Engineer at least five (5) business days prior to the start of Work.
- C. The Contractor shall submit an Remediation Plan to the Engineer clearly indicating the following:
 - 1. All work areas/containments;
 - 2. Locations and types of all decontamination enclosures;
 - 3. A description of the procedures to be used to contain, treat and dispose of water run-off and power-wash water;
 - 4. Description of air monitoring locations, equipment, and procedures;
 - 5. A description of the proposed packaging procedures;
 - 6. Entrances and exits to the work areas/containments;
 - 7. Type of remediation activity/technique for each work area/containment;
 - 8. Sequence of Work activities;
 - 9. Proposed location and construction of storage facilities and field office;
 - 10. Location of utility connections to building services;
 - 11. Waste storage locations;
 - 12. Waste transport routes to the waste storage containers;
 - 13. Products, equipment, and materials to be used on the project, including specifications and Material Safety Data Sheets for all products used on the Project.

The Contractor's Remediation Plan may require submittal to EPA as part of the Agency's Approval of this Work.

- D. A list of similar projects performed by the Contractor within the past two (2) years. The name, address, phone number and contact person

shall be provided for each project reference.

- E. Site specific Health & Safety Plan, indicating the means and methods by which the Contractor will follow applicable Federal and State regulations regarding the work activities, including but not limited to OSHA regulations, fall protection standards, respiratory protection, ladder/scaffolding safety, personal protective equipment, etc.
- F. Handling and management of disposable protective clothing to be used on this Project.
- G. Treatment, Storage or Disposal Facility permits from applicable regulatory agency.
- H. Waste transporter permits and other transportation documentation.
- I. Certification of compliance with OSHA requirements including but not limited to medical surveillance, record keeping and personal monitoring. Documentation of worker training, respiratory protection and medical examination.
- J. The Contractor shall submit Certificates of Insurance (COI) naming “The President and Fellows of Harvard College” as an additionally insured. The COI shall be sent directly to the Harvard University Insurance Office, 1033 Massachusetts Avenue, Cambridge, MA 02138 with copies provided to the Harvard Project Manager and the EH&S representative. Harvard shall be notified at least 10 days prior to any cancellation of the coverage. The Contractor shall provide evidence of the following insurance policies and at the following minimum limits:
 - 1. General Liability: \$1,000,000 each occurrence/\$2,000,000 aggregate
 - 2. Commercial Automobile Liability: \$1,000,000
 - 3. Workers Compensation: \$1,000,000
 - 4. Pollution Liability: \$2,000,000 each occurrence/\$5,000,000 aggregate
 - 5. Excess Liability: \$2,000,000 each occurrence & aggregate
- K. Project Close-out Submittals:
 - 1. The Contractor shall provide the originals of all waste disposal manifests, disposal logs, and Certifications of Disposal within 30 days of waste shipment.
 - 2. The Contractor shall provide within 30 days of project completion all daily progress log, including the entry/exit log.

1.11 PROJECT SUPERVISOR

- A. The Contractor shall designate a Project Supervisor who shall meet the following qualifications:
 - 1. The Project Supervisor shall be trained in PCB removal and hazardous waste management via an OSHA 40-hour HAZWOPER training and OSHA 8-hour Supervisor training.
 - 2. The Project Supervisor shall have a minimum of one year experience as a supervisor.
- B. The Project Supervisor must be on-site at all times during the execution of the Work of this section. The Project Supervisor shall be responsible for the performance of the Work of this section and shall be the primary point of contact for the Owner.
- C. The Site Safety Officer with the above-listed training can fulfill this role.

1.12 AUTHORITY TO STOP WORK

- A. Harvard has the authority to stop the work at any time it determines either personally or through the services of Harvard's Engineer that conditions are not within the specifications and applicable regulations. The stoppage of work shall continue until conditions have been corrected and corrective steps have been taken to the satisfaction of Harvard's Engineer. Standby time required to resolve violations shall be at the Contractor's expense, and any fines, etc., for hazardous conditions or non-compliance will be at the Contractor's expense, and will not be grounds for change orders or time extension.

PART 2 - PRODUCTS

2.01 GENERAL

- A. All materials or equipment delivered to the site shall be unloaded, temporarily stored, and transferred to the work area in a manner which shall not interfere with operation of others at the site, student's or employee's access and safety.
- B. Damaged or deteriorated materials shall not be used and shall be promptly

removed from the premises. Materials that become contaminated with PCB-containing material shall be thoroughly cleaned, or sealed in plastic bags or sheeting, labeled, and legally disposed of in an approved, secure landfill.

- C. All materials and equipment shall comply, at a minimum, with all sections of this specification, applicable federal, state, and local codes, and industry standards.

2.02 REMEDIATION EQUIPMENT & SUPPLIES

- A. All plastic sheeting ("poly") and bags used on the Project (including but not limited to sheeting used for barriers, fixed objects, walls, floors, ceilings, and waste containers) shall be polyethylene or equivalent with a thickness of at least 6 mil for all applications.
- B. Tools used for the removal of caulking or other PCB materials shall be used in a manner that minimizes dust generation, as appropriate. Tools used to apply coatings shall be as recommended by the manufacturer.
- C. All dry vacuuming performed under this contract shall be performed with High Efficiency Particulate Absolute (HEPA) filter equipped industrial vacuums conforming to ANSI Z9.2.
- D. Any power tools used to drill, cut into, or otherwise disturb PCB material shall be manufacturer equipped with HEPA filtered local exhaust ventilation.

2.03 SAFETY SUPPLIES AND PROTECTIVE CLOTHING

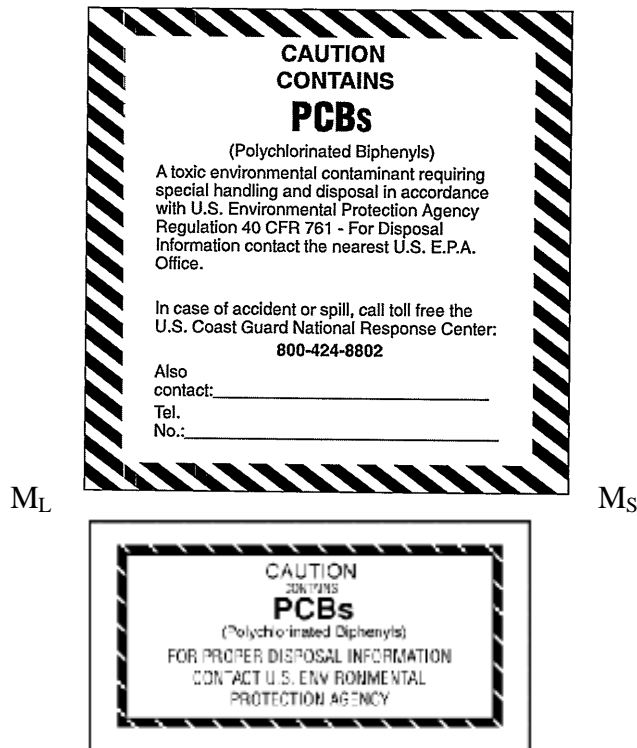
- A. All personnel must utilize proper PPE during all work activities. Proper PPE may vary depending on the job task, but may include disposable gloves, disposable rubber boots, steel-toe boots, Tyvek suits, protective vests, respirators, including replacement cartridges, hard hats, hearing protection, and eye protection.
- B. Respiratory Protection
 - 1. The Contractor shall provide all workers with a full or half face piece respirator which is approved by NIOSH/MSHA for protection against PCBs and dust and which meets the requirements of the OSHA Standard under 29 CFR 1910.134.

2. Respirators shall be individually fit-tested to personnel under the direction of an Industrial Hygienist on a yearly basis. Fit-tested respirators shall be permanently marked to identify the individual fitted, and use shall be limited to that individual. The Contractor shall maintain fit-test records for each employee using a respirator.
 3. No respirators shall be issued to personnel without such personnel participating in a respirator training program.
 4. The Contractor shall provide a storage area where respirators will be kept in a clean environment.
 5. The Contractor shall provide and make available a sufficient quantity of respirator filters so that filter changes can be made as necessary during the work day. Filters will be removed and discarded during the decontamination process at a frequency at least as often as recommended by the manufacturer's specifications. Filters cannot be reused. High Efficiency Particulate Air (HEPA) respirator filters shall be approved by NIOSH and shall conform to the OSHA requirements in 29 CFR 1910.134.
 6. Filters used with negative pressure air purifying respirators shall not be used any longer than one eight (8) hour work day.
- C. The Contractor shall provide sufficient quantities of protective clothing to assure a minimum of four (4) complete disposable outfits per day for each individual performing remediation Work.
- D. Eye protection and hard hats shall be provided and made available for all personnel entering any Work Area.
- E. Authorized visitors shall be provided with suitable protective clothing, headgear, eye protection, and footwear whenever they enter the Work Area. Authorized visitors will not enter a Work Area where respiratory protection is required unless the visitor has been approved and individually fit-tested for respirator use.

2.04 SIGNS, LABELS, AND CONTAINERS

- A. Provide warning signs and barrier tapes at all approaches to the PCB-designated Work Areas. Locate signs at such distance that personnel may read the sign and take the necessary protective steps required before entering the area. If necessary, signs should be legible in the language(s) of the workers.

- B. Provide the appropriate “Large PCB Marking” or “Small PCB Marking” (M_L or M_S per 40 CFR 761) as shown below, of sufficient size to be clearly legible, for display on waste containers (bags, boxes, rolloffs or drums) which will be used to contain or transport PCB contaminated material, in accordance with 40 CFR 761. In addition, U.S. Department of Transportation (DOT) 49 CFR Parts 171 and 172 requires the name and UN number of the material to be on the bags or drums, and, if shipped in bulk (rolloffs, Gaylord boxes, etc) the bulk container must also be labeled: Polychlorinated biphenyl, solid mixture UN 3432, if designated as hazardous waste.



- C. Some PCB materials may also be Hazardous Waste and must have a label stating the following on each container :

**HAZARDOUS WASTE--Federal Law Prohibits Improper Disposal.
If found, contact the nearest police or public safety authority, or the
U.S. Environmental Protection Agency.**

Generator's _____ **Name** _____ **and**
Address _____
Generator's _____ **EPA** _____ **Identification**
Number _____

Manifest	Tracking	Number
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- D. Provide 6 mil polyethylene disposal bags with PCB caution labels.
1. The “Small PCB Label” (M_s per 40 CFR 761) may be used as shown above. Bags shall also be labeled with U.S. DOT required markings per 49 CFR 172, Polychlorinated biphenyl, solid mixture UN 3432.
 2. Labeled PCB waste containers or bags shall not be used for non-PCB waste or trash. Any material placed in labeled containers or bags, whether turned inside out or not shall be handled and disposed of as PCB waste.
- E. A secure, lined, and covered waste container (roll-off or equivalent), 55-gallon DOT-approved steel containers, or equivalent will be staged for the collection of PCB wastes generated during the work activities in accordance with 40 CFR 761.65.

PART 3 - EXECUTION

3.01 GENERAL REQUIREMENTS

- A. The work of this section consists of, but is not limited to:
1. Furnishing of all labor, materials, facilities, equipment, services, and insurance necessary to perform the work;
 2. Maintenance of work area/site security;
 3. Preparation of work area, including installation of containment and decontamination areas as required;
 4. Removal, segregation, and/or containment of PCB-containing materials;
 5. Clean-up and final decontamination of all work areas;
 6. Implementation of a worker protection program in compliance with all applicable regulations;
 7. Proper storage, wrapping/bagging, labeling, transportation and disposal of all waste generated as part of PCB remediation activities.

- B. All remediation activities are to be conducted in accordance with the *Request for Approval of TSCA Risk-Based Clean-up of PCBs under 40 CFR 761*, ATC, December 13, 2011 and the conditions of the pending EPA Approval.
- C. The Contractor shall provide a description of the means and methods, which will adhere to these specifications, of all aspects of the remediation activities to the Owner prior to commencing remedial activities, which will be subject to Owner review and approval.
- D. The Contractor shall develop a Site-Specific Health & Safety Plan (HASP) for their workers and specific to the work activities as described in Paragraph 1.05E of this Section.
- E. The Contractor is responsible for immediately reporting any breach in containment, health and safety incidents, and/or any on-site visits by a regulatory agency to the Owner.
- F. The following documentation shall be maintained on-site by the Contractor during remediation activities:
 - 1. Medical approval, fit test reports, Worker Acknowledgments, and Training certificates
 - 2. Project documents (PCB Remediation Plan, contractor work plan, drawings, specifications, etc.)
 - 3. Material Safety Data Sheets
 - 4. List of Emergency Contact Information
 - 5. Project logs (as applicable)

3.02 WORK AREA PREPARATION

- A. Access to the active work areas will be controlled through the use of controlled access points, polyethylene containments, and/or signage.
- B. Polyethylene containments will be constructed to enclose each work area prior to conducting remediation work in that work area. All polyethylene (plastic) sheeting used on the Project shall be at least 6-mil fire retardant sheeting as described in Paragraph 2.02 of this Section.
- C. All movable objects shall be removed from the work area prior to conducting work. All non-movable objects shall be covered with 6-mil fire retardant polyethylene sheeting and sealed at the edges.

- D. All work areas and work area perimeters will be kept free from debris and maintained in a safe condition. At the end of each work day, the work areas will be inspected and all dust and debris cleaned and placed in appropriate disposal containers.

3.03 REMOVAL OF PCB CONTAINING BUILDING MATERIALS

- A. This work includes the removal and off-site disposal of the following PCB-containing materials in accordance with the 168 Western Avenue, Allston, Massachusetts PCB Remediation Plan: (1) interior and exterior window/door caulking at the former Garage and Showroom; (2) abutting interior concrete spandrels, columns and ceilings; (3) limited abutting interior base (floor) concrete; (4) limited abutting exterior concrete and asphalt; (5) exterior eave/fascia caulking at the former Showroom; and (6) limited soil along the western façade of the Site building
- B. PCB-containing materials subject to removal and off-site disposal shall be removed through a combination of mechanical and physical means. Proper removal techniques and engineering controls shall be utilized to minimize the generation and spread of dust and debris throughout the work area:
1. Caulking removal will be conducted using hand tools or mechanized caulking removal guns; no grinding or sawcutting is permitted to remove or pulverize caulking from interior or exterior locations. All tools will be used in a manner that minimizes dust generation.
 2. Concrete removal in areas requiring façade repairs, if any, will generally consist of:
 - i. Cleaning around sections of damaged concrete to achieve a repair surface bounded by smooth and straight edges; and
 - ii. Patching the surface with new concrete.
 3. All powered tools will be manufacturer equipped with appropriate tool guards and dust/debris collection systems (i.e., HEPA filters). Wet wiping and vacuuming of all tools and equipment in the work area will be performed at the completion of the work activity.
 4. All dry vacuuming performed under this contract shall be performed with High Efficiency Particulate Absolute (HEPA) filter equipped industrial vacuums conforming to ANSI Z9.2.
- C. Air monitoring within the support work zone and perimeter to this zone will be conducted during the active removal of caulking and concrete. To reduce dust levels and exposures to dust, a combination of engineered

controls (e.g., wetting, work zone enclosures), equipment equipped with HEPA filters and dust controls, and personal protective equipment (PPE – respirators) will be implemented as part of the work activities. Air monitoring will be conducted in accordance with the PCB Remediation Plan.

- D. PCB containing materials shall be transported in appropriate containers (polyethylene bags, drums, etc.) from the Work Area along a designated route to the proper waste disposal containers.

3.04 APPLICATION OF ENCAPSULANT

- A. Surfaces subject to encapsulation shall be prepared as described in the PCB Remediation Plan and as recommended by the product specifications.
- B. The encapsulation of building materials shall be conducted using the materials specified in the PCB Remediation Plan, including a coating (i.e. SikaGard 62 or 550, Neogard, Modac and/or Vikote 9080), membrane (i.e. Grace Ice & Water Shield and/or vinyl composition tile) or other engineered material (i.e., Thermax insulation panels);
- C. The application of each encapsulating product is to be conducted in accordance with the manufacturer's specifications included in the PCB Remediation Plan and described below:
 - 1. Substrate must be clean, sound, and free of surface contaminants.
 - 2. Mixing: Premix each component. Stir materials to ensure uniformity using a low speed (400-600 rpm) drill and paddle. To minimize color variation, blend two batches of material (boxing).
 - 3. A minimum of two coats of each coating product is required for each surface. Contrasting colors are required for each coat.
 - 4. When applying the coating, do not stop the application until the entire surface has been coated.
 - 5. Product application methods, application rates, dry film thickness allowances, re-coating times, and final cure times for each product are provided in the product specifications; adhere to all limitations and cautions for each coating in the manufacturers printed literature.
 - 6. Leave finished work and work area in a neat, clean condition without evidence of spillovers onto adjacent areas.

3.05 INSPECTION AND VERIFICATION

- A. At the end of each work day, the Contractor is responsible for inspecting and verifying the work areas are clean and free from dust and debris and secured to prevent unauthorized access.
- B. Following removal of PCB containing materials and encapsulant application, inspection and verification testing will be performed by Owner's consultant to verify completion of the EPA approved remediation activities.
- C. The Contractor is responsible for inspection of all waste storage containers and waste transport routes to verify proper waste handling, storage, and labeling in accordance with all applicable federal and state regulations.
- D. Prior to removal of the containment structures, the Contractor is responsible for verifying all remedial actions have been completed in accordance with the Remediation Plan.
- E. To verify task completion, sample collection and analytical testing may require up to a seven (7) business day turn around time prior to receiving verification results. Appropriate project planning and scheduling should be incorporated into the overall project plans.

3.06 EQUIPMENT AND WORK AREA DECONTAMINATION

- A. The Contractor, or remediation Subcontractor, will clean all work areas at the end of each workday and will collect and store all waste generated from the remediation process (e.g., removed PCB containing material, dust from HEPA filters, etc.) in secure, closed containers that are properly labeled.
- B. When remediation of PCB materials is completed via verification inspections and/or sampling, the decontamination process shall consist of vacuuming (with a HEPA filter), wet wiping/mopping and a repeated vacuuming (with a HEPA filter) of the entire interior work area. All surfaces in and around the work area must be free of dust generated during the work. Final cleaning shall be performed only after all PCB-waste is packaged and removed, but before reinstalling or demolishing any equipment, or dismantling any barrier, decontamination facilities, or protective coverings. Cleaning shall be subject to the approval of Owner's Engineer based on a visual inspection and air testing.
- C. Decontaminate all tools and equipment before removal from the work area.

- D. If dust or debris has migrated to areas of the building other than the immediate work area, those areas shall be incorporated into the work area and thoroughly decontaminated to ensure all visible dust generated by the activity is eliminated.
- E. Remove containment barriers and any other protective sheeting. Place in disposable construction bags (6-mil poly) and dispose of as PCB waste.
- F. Visually inspect the area for any remaining dust or debris. Vacuum (with HEPA filter) and wet wipe until space is clean.
- G. After completing decontamination and removing containment barriers, a final inspection shall be performed by the Contractor and Owner. If the visual inspection reveals that additional cleaning is needed, the Contractor will clean or reclean the affected areas at no additional expense to the Owner.
- H. The Contractor, or remediation Subcontractor, shall not stockpile any PCB waste on-site that is not properly containerized and labeled in accordance with this Section.
- I. The Owner will designate a temporary 'hazardous waste storage' area for the storage of PCB waste. The location will be determined prior to the start of Work.

3.07 PCB WASTE DISPOSAL

- A. General Requirements - All PCB wastes must be handled, packaged, stored, transported, and disposed of as specified in this subsection, and in compliance with all federal, state and local regulations and codes. The Contractor, or the remediation subcontractor, is responsible for the disposal of all PCB waste and other solid waste debris generated at the Project. The Contractor shall give twenty-four (24) hour notification prior to removing any waste from the site. Waste shall be removed from the site only during normal working hours unless otherwise specified. No waste may be taken from the site unless the Contractor and Harvard EH&S representative are present and the Harvard EH&S representative authorizes the release of the waste as described herein.
- B. Waste Labeling - All waste shall be labeled using the labels described in Section 2.04. If waste containers are not already so preprinted, warning labels having waterproof print and permanent adhesive shall be affixed to the lid and/or sides of the containers, whether or not these containers are further packaged. Warning labels shall be conspicuous and legible, and conform to the latest OSHA, EPA and DOT labeling requirements. The

Contractor shall properly wrap/bag all waste from the remediation process (e.g., removed PCB-containing material, dust from HEPA filters, etc.) within the work area. Wrapped/bagged waste shall be stored in secure, closed containers (e.g., drums, roll-off containers) and labeled.

- C. Waste Packaging - The Contractor shall inspect each bag, drum or container to ensure that the package is secure. The secure drum/container shall then be placed in the designated temporary storage area.
- D. Waste Container Removal and Disposal Documentation
 - 1. All waste generated as part of the PCB remediation work shall be removed from the Site within 30 calendar days after successful completion of all PCB remediation work.
 - 2. It is the responsibility of the Contractor to determine current waste handling, transportation, and disposal regulations for the work site and for each waste disposal landfill. The Contractor and its subcontractors must comply fully with these documents and all DOT and EPA requirements.
 - 3. The Contractor shall only make arrangements with and dispose PCB waste at a Harvard utilized facility; the following two facilities are approved for disposal of caulking and building material: Chemical Waste Management, Model City, New York and the Environmental Quality (EQ) Company's Michigan Treatment, Storage, and Disposal Facility (TSDF).
 - 4. The Contractor, transporter and landfill shall document generation, transport and disposal of the waste by use of the Hazardous Waste Manifest. This record is a legally required document, which identifies the generator, transporter(s), temporary storage location(s) and disposal site for any PCB-waste material. The waste management facility shall also provide the Owner with a copy of the Certificate of Disposal.

END OF SECTION

Appendix D
Contractor Workplan - DECTAM

**PCB-IMPACTED BULK MATERIALS REMEDIATION
DEC-TAM WORK PLAN
HARVARD UNIVERSITY
168 WESTERN AVENUE
BOSTON, MA**

BACKGROUND

The Site is located at 168 Western Avenue in Boston, MA; a single story structure that was formally a car dealership. The building includes concrete slab on grade with a poured concrete deck system. The exterior of the building consists of precast concrete panels, concrete masonry (CMU) block and curtain wall construction.

PROJECT SCOPE

The project will consist of the removal and disposal of PCB containing caulk and associated impacted building materials within the subject property. Work will also include surface preparation of associated impacted building materials that are not removed (e.g., removing flaking paint so encapsulant may be applied). PCB impacted materials will be managed as proposed in the Remediation Plan prepared by ATC Associates.

SITE PREPARATION AND CONTROLS

Project Planning

Coordination of all project activities with Harvard University, the General Contractor (Marc Truant & Associates, Inc.) and ATC Associates will be performed. It is anticipated that several meetings may be required to ensure that the project is properly coordinated with Harvard and their representatives to ensure that any changes in project schedule and scope are properly addressed. Dec-Tam intends on having a Project Manager onsite to attend these meetings, as required, to ensure a coordinated effort.

In addition to the above, Dec-Tam shall prepare and submit a project specific Health and Safety Plan to address all aspects of the work. The plan shall be prepared and submitted by Dec-Tam's Health and Safety Officer; a licensed CSP and CHMM.

Regulatory Guidance

All work will be performed in accordance with all applicable local, state and federal regulations governing this work. This includes, but is not limited to:

- 29 CFR 1910.134 OSHA Respiratory Protection Standard
- 29 CFR 1926.1101 OSHA Asbestos Construction Standard
- 29 CFR 1926.51 OSHA Sanitation Standard
- 29 CFR 1926.59 OSHA Hazardous Communication Standard

- 29 CFR 1926.65 OSHA Hazardous Waste Operations Standard
- 40 CFR 61 EPA NESHAPS Standard
- 310 CMR 40.0000 Massachusetts Contingency Plan

Mobilization and Site Preparation

During the mobilization phase, project logistics will be established. This will include establishment and/or confirmation of existing fencing of the work area (to be provided by the General Contractor), submittal of all project permits and notifications (Massachusetts Department of Environmental Protection, City of Boston) and placing project materials and equipment onsite.

Some of the work will be performed from mechanical lifts. Polyethylene plastic sheeting will be used to minimize dust emissions and placed on the ground during all aspects of the work to capture any debris generated during removal. Boom lifts may be used during window and caulking removal by Engineers to visually inspect and test building materials. Trenching of concrete slabs in areas where PCB levels are elevated will be done within containment under negative air pressure to minimize dust emissions.

Abatement Products

All materials used for the remediation shall be delivered in the original packages, containers, or bundles bearing the name of the manufacturer and the brand name. Disposal drums shall be either metal or fiberboard with locking ring tops, with warning labels as required by OSHA and/or EPA. All vacuum cleaners will be equipped with HEPA filters and polyethylene sheeting shall be 6 mil., opaque, fire retardant. All masonry cutting tools used for cutting concrete will be equipped with a shroud to contain fugitive dust emissions.

EMERGENCY EQUIPMENT AND FIRST AID REQUIREMENTS

Dec-Tam will provide and maintain at the site, at a minimum, the following Emergency and First Aid Equipment:

- Fire Extinguishers: A minimum one (1) fire extinguisher shall be supplied and maintained at the site throughout the duration of the project. Each extinguisher shall be a minimum of a 20 pound Class ABC dry fire extinguisher with Underwriters Laboratory approval per 29 CFR 1910.157.
- First Aid Kit: A minimum of one (1) first aid kit meeting the requirements of 29 CFR 1910.151 shall be supplied and maintained at the site throughout the duration of the project.
- Communications: Telephone communications (either cellular or land line) shall be available for use by site personnel at all times during the project.

Dec-Tam's Health and Safety Officer shall be notified immediately in the event of personal injury, potential exposure to contaminants, or other emergency. The Health and Safety Officer shall then immediately notify all parties.

REMEDATION ACTIVITIES

Caulking and Curtain Wall (Window) Removal

Following site preparation, PCB containing caulking and adjacent curtain walls will be removed using a combination of mechanical and physical means. Work shall be performed as follows:

- Glass will be covered with polyethylene plastic sheeting attached with spray glue to protect workers from broken glass during removal
- Aluminum glass framing will be removed using manual methods and cut into two foot lengths using hand-held power saws for waste disposal
- PCB containing caulking will then be removed from the concrete substrate using manual scraping tools and wire brushes. All surfaces will be wet wiped and HEPA vacuumed and residual debris collected on ground sheeting. It is anticipated that one section of curtain wall adjacent to the PCB containing caulking will be removed each day by a four-man crew. Should additional sections need to be removed per day, crew sizes can be adjusted to meet project schedule requirements
- Following removal of caulking, surfaces will be visually inspected for the presence of residual caulking by the Engineer. If residual caulking is found by the Engineer, Dec-Tam shall be notified and the additional material removed
- Once removal work has been found acceptable, the General Contractor shall be responsible for covering the opening to provide weather protection/security to the project site
- All PCB-waste materials shall be managed as proposed in the Remediation Plan prepared by ATC Associates

Concrete and Asphalt Removal

Concrete walkways and asphalt adjacent to the building shall be removed as follows:

- A Regulated Area shall be established
- Asphalt shall be cut (outside of the area deemed to be impacted) along the front of the building using demolition saws as directed by Harvard
- Asphalt shall be removed using a mini-excavator (14,000 lb) and placed directly into a skid steer bucket
- The skid steer shall take the asphalt and place it directly into a waste container onsite
- The concrete walkway immediately adjacent the building entrance shall be removed in a similar manner

Concrete Structural Columns

Loose and flaking paint from the interior of all structural columns shall be removed and the surfaces made “intact”. Work shall be performed as follows:

- A Regulated Area shall be established using caution tape
- Polyethylene plastic sheeting shall be placed on the ground around the column to be scraped
- Loose paint shall be removed by misting the surfaces to reduce dust emissions and using scrapers and wire brushes to remove flaking paint to a three foot level from the floor
- All surfaces shall be wet wiped and HEPA vacuumed and paint chips from the ground sheeting shall be collected and placed directly into the waste container onsite
- Polyethylene plastic sheeting shall also be placed into waste bags and then into the onsite waste container
- Following the removal of loose and flaking paint, an encapsulant shall be applied by a subcontractor as proposed in the Remediation Plan prepared by ATC Associates and directed by the General Contractor

Wood Fascia Boards

Prior to the removal of window caulking and associated curtain walls, wood fascia boards that exist above these building components shall be removed. Work shall be performed from boom lifts and the wood boards removed using manual methods using pry bars. The wood boards shall be cut into smaller sections and placed directly into PCB-waste containers onsite. After the fascia boards have been removed, any residual caulking at the fascia board/concrete interface shall be removed using manual methods (i.e., scraping, wire brushes) and all resulting waste placed directly into the onsite PCB-waste container.

Soils

Dec-Tam shall assist Harvard in the removal of PCB-impacted soils as follows:

- Harvard University or the General Contractor shall notify Dig Safe and obtain any necessary permits from the City of Boston
- A Regulated Area shall be established using caution tape and/or fencing
- Plantings (roots) in the subject area shall be removed, cut to the appropriate size and placed into the onsite PCB-waste container
- If required, PCB-impacted soil shall be removed to the appropriate depth as proposed in the Remediation Plan prepared by ATC Associates using a mini-excavator and skid steer to place material directly into waste containers. At no time will soil come into contact with the ground. Buckets shall be only half-filled to minimize the potential for spillage
- Harvard University’s Engineer shall be onsite to ensure that the proper amount of soil has been removed and the area shall be backfilled upon completion in accordance with the project’s technical specification (Section 312000, Earthwork) for the work

Interior Concrete Slab Flooring

Should concrete trenching of the slab be required for the installation of building utilities in areas that have been impacted by PCB caulk, Dec-Tam shall remove PCB-impacted concrete (as delineated by ATC Associates) under controlled conditions. Work will be performed as follows:

- Harvard University or the General Contractor shall notify Dig Safe and obtain any necessary permits from the City of Boston
- Specific locations of the trenches will be marked with spray paint (or equivalent) by others prior to the start of work
- Trench locations that are in areas that have been identified as PCB impacted will be performed within a full containment under negative air pressure using HEPA filtration units
- Concrete will be cut using a concrete saw and slab sections will be cut into manageable sizes. PCB-impacted concrete shall be removed from the trench and placed into lined carts to be taken directly to the PCB-waste container onsite
- Once PCB-impacted concrete has been removed, containment shall be taken down

WASTE MANAGEMENT, TRANSPORTATION AND DISPOSAL

All waste generated during the course of the project shall be managed as proposed in the Remediation Plan prepared by ATC Associates. Wastes will be labeled, stored, managed and transported for disposal following all applicable local, state and federal regulations. All waste shall be accompanied with a Waste Manifest and execution of each manifest shall be coordinated with Harvard University Environmental Health, Safety & Emergency Management (EHSEM) personnel.

DOCUMENTATION SUBMITTAL

All documentation generated from this project will be bound in a binder. A copy of this binder will be sent to Harvard University and will consist of:

- HASP
- All daily job sheets
- Daily project notes
- Dig Safe Number
- Trenching Permits (if applicable)
- Waste Manifest Copies
- Weight Slip Copies
- Backfill Slips